

# Module Catalogue

for the Module studies (Bachelor)

# Physics

Examination regulations version: 2019 Responsible: Faculty of Physics and Astronomy

JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MB|128|-|-|H|2019

#### Julius-Maximilians-UNIVERSITÄT WÜRZBURG

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## The subject is divided into

section / sub-section		starting		
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## Abbreviations used

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Course types:  $\mathbf{E}$  = field trip,  $\mathbf{K}$  = colloquium,  $\mathbf{O}$  = conversatorium,  $\mathbf{P}$  = placement/lab course,  $\mathbf{R}$  = project,  $\mathbf{S}$  = seminar,  $\mathbf{T}$  = tutorial,  $\ddot{\mathbf{U}}$  = exercise,  $\mathbf{V}$  = lecture

Term: **SS** = summer semester, **WS** = winter semester

Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed

Regulations: **(L)ASPO** = general academic and examination regulations (for teaching-degree programmes), **FSB** = subject-specific provisions, **SFB** = list of modules

Other: **A** = thesis, **LV** = course(s), **PL** = assessment(s), **TN** = participants, **VL** = prerequisite(s)

## Conventions

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

### Notes

Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should the module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

### In accordance with

the general regulations governing the degree subject described in this module catalogue:

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

15-May-2019 (2019-36) 27-Jun-2019 (2019-41) 14-Nov-2019 (2019-52) 22-Jan-2020 (2020-13) 06-May-2020 (2020-39) 22-Jul-2020 (2020-57) 17-Dec-2020 (2020-110) 10-Mar-2021 (2021-17) 09-Jun-2021 (2021-58) 22-Dec-2021 (2021-85) 05-Jul-2022 (2022-52) 31-Jan-2023 (2022-86) 15-Jun-2023 (2023-58) 13-Dec-2023 (2023-107) 07-Aug-2024 (2024-82) 22-Jan-2025 (2025-1)

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This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.



Physics

# Summer Term 2019

(ECTS credits)

Module title Abbreviation					Abbreviation
Current Topics in Experimental Physics11-BXE5-152-m01			11-BXE5-152-m01		
Module coordinator M				Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	nd Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current or stud	topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university
Intende	ed learı	ning outcomes			
The stu sics of unders classify	dents l the Bac tand th the su	nave advanced competer chelor's programme. They e measuring and/or eval bject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	to the requirements of a current subdiscipli essary to acquire this ion areas.	of a module of Experimental Phy- ne of Experimental Physics and 5 knowledge. They are able to
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	rman)	
V (2) +	R (2)				
<b>Method of assessment</b> (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocat	ion of p	olaces			
Additional information					
Workload					
150 h					
Teaching cycle					
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					

Module title Abbreviation				
Current Topics in Experimental Physics			11-BXE6-152-m01	
Module coordinator M				
son of examination committee		Faculty of Physics a	ind Astronomy	
Aethod of grading	Only after succ. com	pl. of module(s)		
numerical grade				
Module level	Other prerequisites			
er undergraduate	Approval from exam	ination committee re	equired.	
;				
opics of Experimental Physics. abroad.	Accredited academi	c achievements, e.g.	. in case of change of university	
learning outcomes				
ents have advanced competer e Bachelor's programme. They nd the measuring and/or eval he subject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	o the requirements of a current subdiscipli ssary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and 5 knowledge. They are able to	
(type, number of weekly contact hours, l	anguage — if other than Ger	man)		
(1)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)				
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.				
n of places				
Additional information				
Workload				
180 h				
Teaching cycle				
to in LPO I (examination regulations	s for teaching-degree progra	mmes)		
	opics in Experimental Physics         oordinator         on of examination committee         Nethod of grading         umerical grade         Module level         er         undergraduate         opics of Experimental Physics.         abroad.         learning outcomes         ents have advanced competer         e Bachelor's programme. They         nd the measuring and/or eval         ne subject-specific contexts a         type, number of weekly contact hours, I         (1)         of assessment (type, scope, langua         editable for bonus)         xamination (approx. 90 to 120         amination in groups (groups of presentation/talk (approx. 30         n examination was chosen as         e the form of an oral examina         ment is changed, the lecturer         te at the latest.         e of assessment: German and/or         al information         al information         to in LPO I (examination regulation)	opics in Experimental Physics         oordinator         on of examination committee         tethod of grading       Only after succ. commitmerical grade         imerical grade          Module level       Other prerequisites         er       undergraduate       Approval from exammination academination methods neces         tearning outcomes       ents have advanced competencies corresponding to a subject-specific contexts and know the applicate type, number of weekly contact hours, language — if other than German, contact specific contexts and know the applicate type, number of weekly contact hours, language — if other than German, contact for the subject specific context s and know the applicate type, number of weekly contact hours, language — if other than German, contact to an anination in groups (groups of 2, approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minute).         transmination was chosen as method of assessment e the form of an oral examination of one candidate ment is changed, the lecturer must inform student the at the latest.         to assessment: German and/or English         nof places         attinformation         to assessment: German and/or English         nof places	Module offered by         Module offered by         on of examination committee         Faculty of Physics a         tethod of grading       Only after succ. compl. of module(s)         umerical grade          Module level       Other prerequisites         er       undergraduate       Approval from examination committee responses         optics of Experimental Physics. Accredited academic achievements, e.g.       abroad.         learning outcomes         ents have advanced competencies corresponding to the requirements of e Bachelor's programme. They have knowledge of a current subdiscipil and the measuring and/or evaluation methods necessary to acquire this ne subject-specific contexts and know the application areas.         type, number of weekly contact hours, language — if other than German)       [1)         of assessment (type, scope, language — if other than German, examination offered — if no editable for bonus)       amination (approx. 90 to 120 minutes).         camination (approx. 90 to 120 minutes).       and anination of an oral examination of one candidate each or an oral examination was chosen as method of assessment, this may be chaa et he form of an oral examination of one candidate each or an oral examination was chosen as method of assessment.         e of assessment: German and/or English       and the latest.         e of assessment: German and/or English       and flaces	

Module title Abbreviation				Abbreviation	
Current Topics in Experimental Physics11-BXE8-152-m01			11-BXE8-152-m01		
Module coordinator				Module offered by	
chairper	rson of	examination committee	_	Faculty of Physics a	nd Astronomy
ECTS	Metho	d of grading	Only after succ. com	npl. of module(s)	
8	numer	ical grade			
Duratior	n	Module level	Other prerequisites		
1 semes	ster	undergraduate	Approval from exam	ination committee re	equired.
Content	S				
Current f or study	topics ⁄ abroa	of Experimental Physics. d.	Accredited academi	c achievements, e.g.	. in case of change of university
Intende	d learr	ing outcomes			
The students have advanced competencies corresponding to the requirements of a module of Experimental Phy- sics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.					of a module of Experimental Phy- ne of Experimental Physics and 5 knowledge. They are able to
Courses	(type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (4) + R	R (2)				
<b>Method of assessment</b> (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocatio	on of p	laces			
Addition	nal info	ormation			
Workload					
240 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					

Module title			Abbreviation		
Current Topics in Theoretical Physics11-BXT5-152-m01			11-BXT5-152-m01		
Module coordinator Module			Module offered by		
chairpe	erson of	fexamination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learr	ning outcomes			
The stu sics of t Physics blems o	dents ł the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t y have advanced spee d methods. They are	to the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	rman)	
V (2) +	R (2)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocat	ion of p	olaces			
Additional information					
Workload					
150 h					
Teaching cycle					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				

Current Topics in Theoretical Physics       11-BXT6-152-m01         Module coordinator       Module offered by         chairperson of examination committee       Faculty of Physics and Astronomy         ECTS       Method of grading       Only after succ. compl. of module(s)         6       numerical grade          Duration       Module level       Other prerequisites         1 semester       undergraduate       Approval from examination committee required.				
Module coordinator       Module offered by         chairperson of examination committee       Faculty of Physics and Astronomy         ECTS       Method of grading       Only after succ. compl. of module(s)         6       numerical grade          Duration       Module level       Other prerequisites         1 semester       undergraduate       Approval from examination committee required.				
Faculty of Physics and Astronomy         ECTS       Method of grading       Only after succ. compl. of module(s)         6       numerical grade          Duration       Module level       Other prerequisites         1 semester       undergraduate       Approval from examination committee required.				
ECTS       Method of grading       Only after succ. compl. of module(s)         6       numerical grade          Duration       Module level       Other prerequisites         1 semester       undergraduate       Approval from examination committee required.				
6     numerical grade        Duration     Module level     Other prerequisites       1 semester     undergraduate     Approval from examination committee required.				
Duration         Module level         Other prerequisites           1 semester         undergraduate         Approval from examination committee required.				
1 semester     undergraduate     Approval from examination committee required.				
Contouto				
Current topics of Theoretical Physics. Accredited academic achievements, e.g. in case of change of university or study abroad.				
Intended learning outcomes				
The students have advanced competencies corresponding to the requirements of a module of Theoretical Phy- sics of the Bachelor's programme. They have advanced specialist knowledge of a subdiscipline of Theoretical Physics and have mastered the required methods. They are able to apply the acquired methods to current pro- blems of Theoretical Physics.				
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)				
V (3) + R (1)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)				
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.				
Allocation of places				
Additional information				
Workload				
180 h				
Teaching cycle				
Referred to in LPO I (examination regulations for teaching-degree programmes)				

Intervetical Physics         Module coordinator         Module coordinator       Module offered by         chairperson of examination committee       Faculty of Physics and Astronomy         ECTS         Method of grading       Only after succ. compl. of module(s)         8       numerical grade          Duration         Module level       Other prerequisites				
Module coordinator       Module offered by         chairperson of examination committee       Faculty of Physics and Astronomy         ECTS       Method of grading       Only after succ. compl. of module(s)         8       numerical grade          Duration       Module level       Other prerequisites				
chairperson of examination committee       Faculty of Physics and Astronomy         ECTS       Method of grading       Only after succ. compl. of module(s)         8       numerical grade          Duration       Module level       Other prerequisites				
ECTS       Method of grading       Only after succ. compl. of module(s)         8       numerical grade          Duration       Module level       Other prerequisites				
8     numerical grade        Duration     Module level     Other prerequisites				
Duration         Module level         Other prerequisites				
Approval from examination committee required.				
Contents				
Current topics of Theoretical Physics. Accredited academic achievements, e.g. in case of change of university or study abroad.				
Intended learning outcomes				
The students have advanced competencies corresponding to the requirements of a module of Theoretical Phy- sics of the Bachelor's programme. They have advanced specialist knowledge of a subdiscipline of Theoretical Physics and have mastered the required methods. They are able to apply the acquired methods to current pro- blems of Theoretical Physics.				
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)				
V (4) + R (2)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)				
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.				
Allocation of places				
Additional information				
Workload				
240 h				
Teaching cycle				
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)				

Module title Abbreviation					Abbreviation
Selected Topics in Astrophysics					11-CSA6-152-m01
Module coordinator				Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
Selecte	ed topic	s of Astrophysics.			
Intende	ed lear	ning outcomes			
The stu tion me know tl	idents l ethods he appl	have basic knowledge of necessary to acquire this lication areas.	a current field of Astr knowledge. They are	ophysics and under able to classify the	stand the measuring and evalua- subject-specific contexts and
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
180 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					

Module title			Abbreviation		
Selected Topics in Solid State Physics 11-CSF6-152-mo1			11-CSF6-152-m01		
Module coordinator				Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Selecte	ed topic	s of Solid-State Physics.			
Intende	ed leari	ning outcomes			
The stu and eva texts ar	idents l aluation nd know	nave basic knowledge of n methods necessary to a w the application areas.	a specialist field of S acquire this knowledg	olid-State Physics a ge. They are able to c	nd understand the measuring classify the subject-specific con-
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocat	ion of p	olaces			
Additio	onal info	ormation			
Workload					
180 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					

Module title					Abbreviation	
Selected Topics in Particle Physics					11-CST6-152-m01	
Module	e coord	inator		Module offered by		
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Selecte	ed topic	s of Particle Physics.				
Intende	ed learı	ning outcomes				
The stu theoret and kn	idents l fical me ow the	nave basic knowledge of thods necessary to acqu application areas.	a special field of Eler ire this knowledge. T	nentary Particle Phys hey are able to class	sics and of the experimental or sify the subject-specific contexts	
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
Metho module is	<b>d of ass</b> s creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the essmen date at age of a	nation (approx. 90 to 120 ation in groups (groups of centation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one cano tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces				
Additio	onal info	ormation				
Workload						
180 h						
Teaching cycle						
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						

Module title				Abbreviation	
Selected Topics in Theoretical Physics					11-CSTh6-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
Selecte	d topic	s of Theoretical Physics.			
Intende	ed lear	ning outcomes			
The stu mather	dents natical	have basic knowledge of methods. They are able t	a special field of The to apply the acquired	oretical Physics and methods to current	have mastered the necessary problems of Theoretical Physics.
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
Methoo module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
or oral of pages) If a written stead ta of asse nation of Langua	examin examin or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 nation in groups (groups of sentation/talk (approx. 30 amination was chosen as a form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of <sub>l</sub>	olaces			
Additio	nal inf	ormation			
Workload					
180 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	



# Winter Term 2019

(ECTS credits)

Module title				Abbreviation	
Current Topics in Experimental Physics				11-BXE5-152-m01	
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current or stud	t topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university
Intende	ed leari	ning outcomes			
The stu sics of unders classify	dents l the Bac tand th / the su	nave advanced competer chelor's programme. They e measuring and/or eval bject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	o the requirements of a current subdiscipli essary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) +	R (2)				
Method module is	<b>d of ass</b> s creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 lation in groups (groups of sentation/talk (approx. 30 amination was chosen as form of an oral examinat t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
150 h					
Teachi	ng cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module title				Abbreviation	
Current Topics in Experimental Physics			5		11-BXE6-152-m01
Module	coord	inator		Module offered by	
chairpe	rson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current or study	topics y abroa	of Experimental Physics. Id.	Accredited academi	c achievements, e.g.	. in case of change of university
Intende	ed learr	ning outcomes			
The stur sics of t underst classify	dents ł the Bac tand th r the su	nave advanced competer chelor's programme. They e measuring and/or eval bject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	o the requirements of a current subdiscipli essary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and 5 knowledge. They are able to
Courses	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) + F	R (1)				
Method module is	<b>l of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral e pages) If a writ stead ta of asses nation o Langua	examir examin or pres ten exa ake the ssment date at ge of a	nation (approx. 90 to 120 ation in groups (groups o entation/talk (approx. 30 amination was chosen as form of an oral examinat t is changed, the lecturer the latest. ssessment: German and/	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student for English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocati	ion of p	olaces			
Additio	nal info	ormation			
Workload					
180 h					
Teachin	Teaching cycle				
Referre	d to in	LPOI (examination regulations	s for teaching-degree progra	mmes)	

Module title				Abbreviation	
Current Topics in Experimental Physics				11-BXE8-152-m01	
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
8	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current or stud	topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university
Intende	ed learı	ning outcomes			
The stu sics of unders classify	dents l the Bac tand th the su	nave advanced competer chelor's programme. They e measuring and/or eval bject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	o the requirements of a current subdiscipli essary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (4) +	R (2)				
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral pages) If a writ stead ta of asse nation Langua	examin examin or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 ation in groups (groups of centation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be char e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
240 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module title				Abbreviation	
Current Topics in Theoretical Physics				11-BXT5-152-m01	
Module	e coord	inator		Module offered by	
chairpe	erson of	fexamination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learr	ning outcomes			
The stu sics of t Physics blems o	dents ł the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t y have advanced spee d methods. They are	to the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	rman)	
V (2) +	R (2)				
Methoo module is	d of ass creditab	e <b>ssment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral o pages) If a writ stead ta of asse nation Langua	examin examin or pres ten exa ake the ssment date at ge of a	nation (approx. 90 to 120 ation in groups (groups of entation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral example of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be char e each or an oral exa is about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Workload					
150 h					
Teachir	Teaching cycle				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module title				Abbreviation	
Current Topics in Theoretical Physics				11-BXT6-152-m01	
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learı	ning outcomes			
The stu sics of t Physics blems o	dents l the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t y have advanced spee d methods. They are	o the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral o pages) If a writ stead ta of asse nation o Langua	examin examin or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 lation in groups (groups of sentation/talk (approx. 30 amination was chosen as form of an oral examina- t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral example of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
180 h					
Teachir	ng cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module title				Abbreviation	
Current Topics in Theoretical Physics				11-BXT8-152-m01	
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
8	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learı	ning outcomes			
The stu sics of t Physics blems o	dents l the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t / have advanced spee d methods. They are	o the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (4) +	R (2)				
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral o pages) If a writ stead ta of asse nation Langua	examin examin or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 action in groups (groups of centation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral example of 2, approx. 30 minuto minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be char e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
240 h					
Teachir	Teaching cycle				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module title					Abbreviation	
Selected Topics in Astrophysics					11-CSA6-152-m01	
Module	e coord	inator		Module offered by		
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.	
Conten	ts					
Selecte	ed topic	s of Astrophysics.				
Intende	ed lear	ning outcomes				
The stu tion me know tl	idents l ethods he appl	have basic knowledge of necessary to acquire this lication areas.	a current field of Astr knowledge. They are	ophysics and under able to classify the	stand the measuring and evalua- subject-specific contexts and	
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
Method module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the essmen date at age of a	nation (approx. 90 to 120 action in groups (groups of sentation/talk (approx. 30 amination was chosen as e form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Workload						
180 h						
Teaching cycle						
Referre	<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					

Module title					Abbreviation	
Selected Topics in Solid State Physics					11-CSF6-152-m01	
Module	e coord	inator		Module offered by		
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Selecte	ed topic	s of Solid-State Physics.				
Intende	ed learı	ning outcomes				
The stu and eva texts a	idents l aluation nd know	nave basic knowledge of n methods necessary to a w the application areas.	a specialist field of S acquire this knowledg	olid-State Physics a ge. They are able to c	nd understand the measuring classify the subject-specific con-	
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
Metho module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 ation in groups (groups of centation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral example of 2, approx. 30 minuto minutes). method of assessme tion of one candidate must inform student /or English	mination of one cano tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Workload						
180 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						

Module title					Abbreviation	
Selected Topics in Particle Physics					11-CST6-152-m01	
Module	e coord	inator		Module offered by		
chairpe	erson of	f examination committee		Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Selecte	ed topic	s of Particle Physics.				
Intende	ed learı	ning outcomes				
The stu theoret and kn	idents l fical me ow the	nave basic knowledge of thods necessary to acqu application areas.	a special field of Eler ire this knowledge. T	nentary Particle Phys hey are able to class	sics and of the experimental or sify the subject-specific contexts	
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
Metho module is	<b>d of ass</b> s creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the essmen date at age of a	nation (approx. 90 to 120 ation in groups (groups of centation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one cano tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces				
Additio	onal info	ormation				
Workload						
180 h						
Teaching cycle						
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						

Module title				Abbreviation	
Selected Topics in Theoretical Physics			i		11-CSTh6-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts		-		
Selecte	d topic	s of Theoretical Physics.			
Intende	ed lear	ning outcomes			
The stu mather	dents   natical	have basic knowledge of methods. They are able t	a special field of The to apply the acquired	oretical Physics and methods to current	have mastered the necessary problems of Theoretical Physics.
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	rman)	
V (3) +	R (1)				
Methoo module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether
or oral pages) If a writ stead ta of asse nation Langua	examin examin or pres tten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 nation in groups (groups of sentation/talk (approx. 30 amination was chosen as a form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	o minutes) or oral exa of 2, approx. 30 minu o minutes). The method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa is about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of <sub>l</sub>	olaces			
Additio	nal inf	ormation			
Workload					
180 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	



# Summer Term 2020

(ECTS credits)

Current Topics in Experimental Physics       11-BXE5-152-m01         Module coordinator       Faculty of Physics and Astronomy         ECTS       Method of grading       Only after succ. compl. of module(s)         5       numerical grade       -         Duration       Module level       Other prerequisites         1 semester       undergraduate       Approval from examination committee required.         Contents       Contents       -         Etted be arring outcomes       The students have advanced competencies corresponding to the requirements of a module of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.         Courset (type, number of weekly contact hours, language – if other than German, examination of one candidate each (approx. 30 minutes) or cral examination of one candidate each (approx. 30 minutes) or cral examination in groups of 2, approx. 30 minutes)         or calculated for bonus       written examination (approx. 90 to 120 minutes).         or calculated for bonus       written examination in groups of 2, approx. 30 minutes)         or calculated is or bonus       or calculates and and/or English         Althod of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination afor a calculate each (approx. 30 minutes).         or cal examination was chosen as method of assessment, this m	Module	Module title Abbreviation						
Module coordinator       Module offered by         chairperson of examination committee       Faculty of Physics and Astronomy         ECTS       Method of grading       Only after succ. compl. of module(s)         5       numerical grade          Duration       Module level       Other prerequisites         1 semester       undergraduate       Approval from examination committee required.         Contents       Contents          Current topics of Experimental Physics. Accredited academic achievements, e.g. in case of change of university or study abroad.          Intended lear-flop outcomes           The students have advanced competencies corresponding to the requirements of a module of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.         Courses (type, number of weekly contact hours, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)         written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups. If the method of assessment (type, scope, language – if other than German, examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination for a calcidate each or an oral examination in groups. If the method of assesssment i	Current Topics in Experimental Physics				11-BXE5-152-m01			
chairperson or examination committee       Faculty of Physics and Astronomy         ECTS       Method f grading       Only after succ. compl. of module(s)         5       numetrial grade	Module coordinator				Module offered by			
ECTS         Metion of grading         Only after succ. compl. of module(s)           5         numerical grade            Duration         Module level         Opproval from examination committee required.           Contents	chairperson of examination committee				Faculty of Physics a	and Astronomy		
5       numerical grade          Duration       Module level       Other prerequisites         1 semester       undergraduate       Approval from examination committee required.         Contents       Contents       Semester       In case of change of university or study abroad.         Intended learning outcomes       Intended learning outcomes       Intended learning outcomes         The students have advanced competencies corresponding to the requirements of a module of Experimental Physics and understand the measuing and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.         Courses (type, number of weekly contact hours, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)         written examination (approx. 90 to 120 minutes) or oral examination offered – if not every semester, information on pages) or presentation/talk (approx. 30 minutes) or oral examination of one candidate each (approx. 30 minutes).         If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.         Language of assessment: German and/or English       Allocation of an call examination regulation of one candidate each or an oral examination in groups. If the method of assessment is changed	ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
Duration         Module level         Other prerequisites           1 semester         undergraduate         Approval from examination committee required.           Contents         Contents         Contents           Intended learning outcomes         Contents         Contents           Intended learning outcomes         Contents of Experimental Physics. Accredited academic achievements, e.g. in case of change of university or study abroad.           Intended learning outcomes         Contents         Contents of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.           Courses (type, number of weekly contact hours, language – if other than German)         V (2) + R (2)           Wethod of assessment (type, scope, language – if other than German, examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes) or oral examination of one candidate each (approx. 30 minutes)           Written examination (approx. 90 to 10 minutes) or oral examination of one candidate each (approx. 30 minutes)           If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination or must chosen as method of assessment is form students about this by four weeks prior to the original examination at the latest.           Language of assessment: German and/or English           Allocation of laces           Teaching	5	nume	rical grade					
1 semester       undergraduate       Approval from examination committee required.         Corrent topics of Experimental Physics. Accredited academic achievements, e.g. in case of change of university or study abroad.         Intended learning outcomes         The students have advanced competencies corresponding to the requirements of a module of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.         Courses (type, number of weekly contact hours, language – if other than German)         V (2) + R (2)         Method of assessment (type, scope, language – if other than German)         written examination (approx. 9 to to to minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes) per candidate) or project report (approx. 8 to to pages) or presentation/talk (approx. 30 minutes).         If a written examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to to pages) or presentation/talk (approx. 30 minutes).         If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination or candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination at the latest.         Language of assessment: German and/or English </td <td colspan="2">Duration Module level Other prerequisit</td> <td>Other prerequisites</td> <td colspan="3">'S</td>	Duration Module level Other prerequisit		Other prerequisites	'S				
Contents         Current topics of Experimental Physics. Accredited academic achievements, e.g. in case of change of university or study abroad.         Intended learning outcomes         The students have advanced competencies corresponding to the requirements of a module of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.         Courses (type, number of weekly contact hours, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)         Written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination of one candidate each (approx. 30 minutes).         If a written examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).         If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.         Language of assessment: German and/or English         Allocation of places               Workload         150 h         Teaching cycle            Referred to in LPO 1 (examination	1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.		
Current topics of Experimental Physics. Accredited academic achievements, e.g. in case of change of university or study abroad. Intended learning outcomes The students have advanced competencies corresponding to the requirements of a module of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas. Courses (type, number of weekly contact hours, language – if other than German) V (2) + R (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Allocation of places	Conten	ts						
Intended learning outcomes The students have advanced competencies corresponding to the requirements of a module of Experimental Physics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas. Courses (type, number of weekly contact hours, language – if other than German) V (2) + R (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). if a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Allocation of places Morkload Workload Referred to in LPO I (examination regulations for teaching-degree programmes)	Current or stud	t topics y abroa	of Experimental Physics ad.	. Accredited academi	c achievements, e.g	. in case of change of university		
The students have advanced competencies corresponding to the requirements of a module of Experimental Physics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas. Courses (type, number of weekly contact hours, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) V (2) + R (2) Method of assessment (type, scope, language – if other than German, examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes) per candidate) or project report (approx. 8 to 10 pages) or presentation /talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Allocation of places Morkload Workload Referred to in LPO I (examination regulations for teaching-degree programmes)	Intende	ed lear	ning outcomes					
Courses (type, number of weekly contact hours, language – if other than German)         V (2) + R (2)         Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)         written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).         If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.         Language of assessment: German and/or English         Allocation of places            Morkload         150 h         Teaching cycle            Referred to in LPOI (examination for useduting for teaching-degree programmes)	The stu sics of unders classify	dents l the Bao tand th / the su	have advanced competer chelor's programme. The le measuring and/or eval lbject-specific contexts a	ncies corresponding t y have knowledge of uation methods nece nd know the applicat	to the requirements of a current subdiscipli a current subdiscipli assary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to		
V (2) + R (2)  Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)  written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may in- stead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original exami- nation date at the latest. Language of assessment: German and/or English Allocation of places  Morkload  Workload  Referred to in LPO I (examination regulations for teaching-degree programmes)	Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)			
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)         written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).         If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.         Language of assessment: German and/or English         Allocation of places            Workload         150 h         Teaching cycle            Referred to in LPO I (examination regulations for teaching-degree programmes)	V (2) +	R (2)						
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may in- stead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original exami- nation date at the latest. Language of assessment: German and/or English Allocation of places  Moditional information  Workload 150 h Teaching cycle  Referred to in LPO I (examination for teaching-degree programmes) 	Method module is	<b>d of ass</b> creditab	<b>Sessment</b> (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether		
Allocation of places Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes)	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.							
Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes)	Allocation of places							
Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes)								
 Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes)	Additional information							
Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes)								
150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes)	Workload							
Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes)	150 h							
Referred to in LPO I (examination regulations for teaching-degree programmes)	Teaching cycle							
Referred to in LPO I (examination regulations for teaching-degree programmes)								
	Referre	<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						

Module title					Abbreviation
Current Topics in Experimental Physics					11-BXE6-152-m01
Module coordinator				Module offered by	
chairperson of examination committee			_	Faculty of Physics a	ind Astronomy
ECTS	S Method of grading Only after succ. of			npl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current or stud	topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university
Intende	ed leari	ning outcomes			
The stu sics of unders classify	dents l the Bac tand th the su	nave advanced competer chelor's programme. They e measuring and/or eval bject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	o the requirements of a current subdiscipli essary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocation of places					
Additional information					
Workload					
180 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Current Topics in Experimental Physics					11-BXE8-152-m01
Module coordinator				Module offered by	
chairperson of examination committee				Faculty of Physics a	ind Astronomy
ECTS	TS Method of grading Only after succ. co			npl. of module(s)	
8	numerical grade				
Duratio	n	Module level	Other prerequisites		
1 semes	ster	undergraduate	Approval from exam	ination committee re	equired.
Content	ts				
Current or study	topics / abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g	. in case of change of university
Intende	d learr	ning outcomes			
The stur sics of t underst classify	dents ł he Bac and th the su	nave advanced competer chelor's programme. They e measuring and/or eval bject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	to the requirements of a current subdiscipli essary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to
Courses	<b>5</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (4) + I	R (2)				
<b>Method of assessment</b> (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocation of places					
Additional information					
Workload					
240 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Current Topics in Theoretical Physics					11-BXT5-152-m01
Module coordinator				Module offered by	
chairperson of examination committee				Faculty of Physics a	ind Astronomy
ECTS	ECTS Method of grading Only after succ. compl. of module(s)				
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learr	ning outcomes			
The stu sics of t Physics blems o	dents ł the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t y have advanced spee d methods. They are	to the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	rman)	
V (2) +	R (2)				
<b>Method of assessment</b> (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocation of places					
Additional information					
Workload					
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Current Topics in Theoretical Physics					11-BXT6-152-m01
Module coordinator				Module offered by	
chairperson of examination committee				Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
6	nume	rical grade			
Duration Module level		Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learı	ning outcomes			
The stu sics of Physics blems o	dents l the Bac and h of Theo	have advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t y have advanced spee d methods. They are	o the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-
Course	<b>S</b> (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
Methoo module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocation of places					
Additional information					
Workload					
180 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module title					Abbreviation	
Current Topics in Theoretical Physics					11-BXT8-152-m01	
Module coordinator				Module offered by		
chairperson of examination committee				Faculty of Physics a	ind Astronomy	
ECTS	ECTS Method of grading Only after succ. compl. of module(s)					
8	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or	
Intende	ed learı	ning outcomes				
The stu sics of t Physics blems o	dents l the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t / have advanced spee d methods. They are	o the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-	
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (4) +	R (2)					
<b>Method of assessment</b> (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)						
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.						
Allocation of places						
Additional information						
Workload						
240 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module title				Abbreviation		
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Selected Topics in Astrophysics					11-CSA6-152-m01	
Module	e coord	inator		Module offered by		
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.	
Conten	ts					
Selecte	ed topic	s of Astrophysics.				
Intende	ed lear	ning outcomes				
The stu tion me know tl	idents l ethods he appl	have basic knowledge of necessary to acquire this lication areas.	a current field of Astr knowledge. They are	ophysics and under able to classify the	stand the measuring and evalua- subject-specific contexts and	
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
Method module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the essmen date at age of a	nation (approx. 90 to 120 action in groups (groups of centation/talk (approx. 30 amination was chosen as e form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Workload						
180 h						
Teachi	Teaching cycle					
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		

Module title					Abbreviation	
Selected Topics in Solid State Physics					11-CSF6-152-m01	
Module	e coord	inator		Module offered by		
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.	
Conten	ts					
Selecte	ed topic	s of Solid-State Physics.				
Intend	ed learı	ning outcomes				
The stu and ev texts a	Idents I aluation nd know	have basic knowledge of n methods necessary to a w the application areas.	a specialist field of S acquire this knowledg	olid-State Physics a ge. They are able to o	nd understand the measuring classify the subject-specific con-	
Course	<b>S</b> (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
Metho module is	<b>d of ass</b> s creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the essmen date at age of a	nation (approx. 90 to 120 ation in groups (groups of sentation/talk (approx. 30 amination was chosen as e form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Workload						
180 h						
Teachi	Teaching cycle					
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		

Module title					Abbreviation	
Selected Topics in Particle Physics					11-CST6-152-m01	
Module	e coord	inator		Module offered by		
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Selecte	ed topic	s of Particle Physics.				
Intende	ed learı	ning outcomes				
The stu theoret and kn	idents l fical me ow the	nave basic knowledge of thods necessary to acqu application areas.	a special field of Eler ire this knowledge. T	nentary Particle Phys hey are able to class	sics and of the experimental or sify the subject-specific contexts	
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
Metho module is	<b>d of ass</b> s creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the essmen date at age of a	nation (approx. 90 to 120 ation in groups (groups of centation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one cano tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces				
Additio	onal info	ormation				
Workload						
180 h						
Teaching cycle						
Referre	<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					

Module title				Abbreviation	
Selected Topics in Theoretical Physics					11-CSTh6-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
Selecte	d topic	s of Theoretical Physics.			
Intende	ed lear	ning outcomes			
The stu mather	dents natical	have basic knowledge of methods. They are able t	a special field of The to apply the acquired	oretical Physics and methods to current	have mastered the necessary problems of Theoretical Physics.
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
Methoo module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
or oral of pages) If a written stead ta of asse nation of Langua	examin examin or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 nation in groups (groups of sentation/talk (approx. 30 amination was chosen as a form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of <sub>l</sub>	olaces			
Additio	nal inf	ormation			
Workload					
180 h					
Teachir	Teaching cycle				
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	



## Winter Term 2020

(ECTS credits)

Module title					Abbreviation
Current Topics in Experimental Physics					11-BXE5-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current or stud	t topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university
Intende	ed learı	ning outcomes			
The stu sics of unders classify	dents l the Bac tand th / the su	nave advanced competer chelor's programme. They e measuring and/or eval bject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	o the requirements of a current subdiscipli essary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) +	R (2)				
Method module is	<b>d of ass</b> s creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 lation in groups (groups of sentation/talk (approx. 30 amination was chosen as form of an oral examinat t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
150 h	150 h				
Teachi	ng cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Current Topics in Experimental Physics					11-BXE6-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson of	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current or stud	topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university
Intende	ed learr	ning outcomes			
The stu sics of unders classify	dents ł the Bac tand th ⁄ the su	nave advanced competer chelor's programme. They e measuring and/or eval bject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	o the requirements of a current subdiscipli essary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral pages) If a writ stead ta of asse nation Langua	examin examin or pres ten exa ake the ssment date at ge of a	nation (approx. 90 to 120 lation in groups (groups of sentation/talk (approx. 30 amination was chosen as form of an oral examina- t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be char e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Workload					
180 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Current Topics in Experimental Physics					11-BXE8-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
8	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current or stud	topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university
Intende	ed learı	ning outcomes			
The stu sics of unders classify	dents l the Bac tand th the su	nave advanced competer chelor's programme. They e measuring and/or eval bject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	o the requirements of a current subdiscipli essary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (4) +	R (2)				
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral pages) If a writ stead ta of asse nation Langua	examin examin or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 ation in groups (groups of centation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be char e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
240 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Current Topics in Theoretical Physics					11-BXT5-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson of	fexamination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learr	ning outcomes			
The stu sics of t Physics blems o	dents ł the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t y have advanced spee d methods. They are	to the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	rman)	
V (2) +	R (2)				
Methoo module is	d of ass creditab	e <b>ssment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral o pages) If a writ stead ta of asse nation Langua	examin examin or pres ten exa ake the ssment date at ge of a	nation (approx. 90 to 120 ation in groups (groups of entation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral example of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be char e each or an oral exa is about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Workload					
150 h					
Teachir	ng cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module title				Abbreviation	
Current Topics in Theoretical Physics					11-BXT6-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learı	ning outcomes			
The stu sics of t Physics blems o	dents l the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t y have advanced spee d methods. They are	o the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral o pages) If a writ stead ta of asse nation o Langua	examin examin or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 lation in groups (groups of sentation/talk (approx. 30 amination was chosen as form of an oral examinat t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral example of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
180 h					
Teachir	ng cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module title					Abbreviation
Current Topics in Theoretical Physics					11-BXT8-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
8	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learı	ning outcomes			
The stu sics of t Physics blems o	dents l the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t / have advanced spee d methods. They are	o the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (4) +	R (2)				
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral o pages) If a writ stead ta of asse nation Langua	examin examin or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 action in groups (groups of centation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral example of 2, approx. 30 minuto minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be char e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
240 h					
Teachir	ng cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module title				Abbreviation	
Selected Topics in Astrophysics					11-CSA6-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
Selecte	ed topic	s of Astrophysics.			
Intende	ed lear	ning outcomes			
The stu tion me know tl	idents l ethods he appl	have basic knowledge of necessary to acquire this lication areas.	a current field of Astr knowledge. They are	ophysics and under able to classify the	stand the measuring and evalua- subject-specific contexts and
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
Method module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the essmen date at age of a	nation (approx. 90 to 120 action in groups (groups of centation/talk (approx. 30 amination was chosen as e form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
180 h					
Teachi	Teaching cycle				
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title					Abbreviation	
Selected Topics in Solid State Physics					11-CSF6-152-m01	
Module	e coord	inator		Module offered by		
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Selecte	ed topic	s of Solid-State Physics.				
Intende	ed learı	ning outcomes				
The stu and eva texts a	idents l aluation nd know	nave basic knowledge of n methods necessary to a w the application areas.	a specialist field of S acquire this knowledg	olid-State Physics a ge. They are able to c	nd understand the measuring classify the subject-specific con-	
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
Metho module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 ation in groups (groups of centation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral example of 2, approx. 30 minuto minutes). method of assessme tion of one candidate must inform student /or English	mination of one cano tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Workload						
180 h						
Teaching cycle						
Referre	<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					

Module	Module title Abbreviation					
Selected Topics in Particle Physics					11-CST6-152-m01	
Module coordinator				Module offered by		
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.	
Conten	ts					
Selecte	ed topic	s of Particle Physics.				
Intende	ed learı	ning outcomes				
The stu theoret and kn	idents l fical me ow the	nave basic knowledge of thods necessary to acqu application areas.	a special field of Eler ire this knowledge. T	nentary Particle Phys hey are able to class	sics and of the experimental or sify the subject-specific contexts	
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
Metho module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
written or oral pages) If a writ stead t of asse nation Langua	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocat	ion of p	olaces				
Additional information						
Workload						
180 h						
Teaching cycle						
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						



## Summer Term 2021

(ECTS credits)

Module	Module title Abbreviation					
Current Topics in Experimental Physics 11-BXE5-152-mo1					11-BXE5-152-m01	
Module coordinator				Module offered by		
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy	
ECTS	ECTS Method of grading Only after succ. compl. of module(s)					
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Current or stud	t topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university	
Intende	ed learı	ning outcomes				
The stu sics of unders classify	dents l the Bac tand th / the su	nave advanced competer chelor's programme. They e measuring and/or eval bject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	o the requirements of a current subdiscipli essary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to	
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2) +	R (2)					
Method module is	<b>d of ass</b> s creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.						
Allocat	ion of p	olaces				
Additional information						
Workload						
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		

Module	Module title Abbreviation				
Current Topics in Experimental Physics					11-BXE6-152-m01
Module coordinator				Module offered by	
chairpe	erson o	f examination committee	_	Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current or stud	topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university
Intende	ed learı	ning outcomes			
The stu sics of unders classify	dents l the Bac tand th the su	nave advanced competer chelor's programme. They e measuring and/or eval bject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	o the requirements of a current subdiscipli essary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocat	ion of p	olaces			
Additional information					
Workload					
180 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module title Abbreviation					
Current Topics in Experimental Physics 11-BXE8-1					
Module coordinator					
son of examination commit	ee	Faculty of Physics a	and Astronomy		
Method of grading	Only after succ. con	npl. of module(s)			
numerical grade					
n Module level	Other prerequisites				
ter undergraduate	Approval from exam	ination committee r	equired.		
S					
topics of Experimental Phys abroad.	cs. Accredited academi	c achievements, e.g.	. in case of change of university		
d learning outcomes					
lents have advanced compent ne Bachelor's programme. T and the measuring and/or e the subject-specific context	tencies corresponding t hey have knowledge of valuation methods nece s and know the applicat	to the requirements of a current subdiscipli essary to acquire this tion areas.	of a module of Experimental Phy- ine of Experimental Physics and 5 knowledge. They are able to		
(type, number of weekly contact hou	rs, language — if other than Ge	rman)			
(2)					
<b>of assessment</b> (type, scope, lan creditable for bonus)	guage — if other than German,	examination offered — if no	ot every semester, information on whether		
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
on of places					
Additional information					
Workload					
240 h					
Teaching cycle					
to in LPO I (examination regula	ions for teaching-degree progra	ammes)			
	Integration         Image: coordinator         son of examination committed         Method of grading         numerical grade         numerical grade         Module level         ter         undergraduate         sopics of Experimental Physical         optics of Experimental Physical         abroad.         I learning outcomes         ents have advanced compere         ne Bachelor's programme. The         and the measuring and/or experimental Physical         the subject-specific contexts         (type, number of weekly contact hou         (2)         of assessment (type, scope, lan         reditable for bonus)         xxamination (approx. 90 to 1         xamination in groups (group         r presentation/talk (approx         en examination was chosen         ke the form of an oral exami         sment is changed, the lectu         ate at the latest.         e of assessment: German and         on of places         al information         d         g cycle	Intree         Fopics in Experimental Physics         coordinator         Son of examination committee         Method of grading       Only after succ. con         numerical grade          Module level       Other prerequisites         ere       undergraduate       Approval from examination of prerequisites         opics of Experimental Physics. Accredited academinabroad.       Itearning outcomes         ents have advanced competencies corresponding the Bachelor's programme. They have knowledge of und the measuring and/or evaluation methods nece the subject-specific contexts and know the application (type, number of weekly contact hours, language — if other than Geman, reditable for bonus)         xamination (approx. 90 to 120 minutes) or oral exaxamination in groups (groups of 2, approx. 30 minut r presentation/talk (approx. 30 minutes).         ent schanged, the lecturer must inform student at the latest.         e of assessment: German and/or English         of assessment: German and/or English         of assessment: German and/or English         of assessment: German and/or English	Topics in Experimental Physics  For in Experimental Physics  Coordinator  Module offered by  Faculty of Physics a  Method of grading Only after succ. compl. of module(s)  numerical grade -  Module level Other prerequisites  I undergraduate Approval from examination committee  For opics of Experimental Physics. Accredited academic achievements, e.g  abroad.  Hearning outcomes ents have advanced competencies corresponding to the requirements the subject-specific contexts and know the application areas. (type, number of weekly contact hours, language – if other than German) (2)  of assessment (type, scope, language – if other than German, examination offered – if no reditable for bonus)  xamination (approx. 90 to 120 minutes). en examination (approx. 90 to 120 minutes). en examination in groups (groups of 2, approx. 30 minutes per candidate) or r presentation/talk (approx. 30 minutes). en examination of an oral examination of one candidate each or an oral examination of one candidate each or an oral examination d d to in LPO 1 (examination regulations for teaching-degree programmes)		

Module title Abbreviation					Abbreviation	
Current	Current Topics in Theoretical Physics 11-BXT5-152-m01					
Module coordinator				Module offered by	Module offered by	
chairpe	erson of	fexamination committee		Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or	
Intende	ed learr	ning outcomes				
The stu sics of t Physics blems o	dents ł the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t y have advanced spee d methods. They are	to the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-	
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	rman)		
V (2) +	R (2)					
Methoo module is	d of ass creditab	e <b>ssment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.						
Allocat	ion of p	olaces				
Additional information						
Workload						
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		

Current Topics in Theoretical Physics       11-BXT6-152-m01         Module coordinator       Module offered by         chairperson of examination committee       Faculty of Physics and Astronomy         ECTS       Method of grading       Only after succ. compl. of module(s)         6       numerical grade          Duration       Module level       Other prerequisites         1 semester       undergraduate       Approval from examination committee required.					
Module coordinator       Module offered by         chairperson of examination committee       Faculty of Physics and Astronomy         ECTS       Method of grading       Only after succ. compl. of module(s)         6       numerical grade          Duration       Module level       Other prerequisites         1 semester       undergraduate       Approval from examination committee required.					
Faculty of Physics and Astronomy         ECTS       Method of grading       Only after succ. compl. of module(s)         6       numerical grade          Duration       Module level       Other prerequisites         1 semester       undergraduate       Approval from examination committee required.					
ECTS       Method of grading       Only after succ. compl. of module(s)         6       numerical grade          Duration       Module level       Other prerequisites         1 semester       undergraduate       Approval from examination committee required.					
6     numerical grade        Duration     Module level     Other prerequisites       1 semester     undergraduate     Approval from examination committee required.					
Duration         Module level         Other prerequisites           1 semester         undergraduate         Approval from examination committee required.					
1 semester     undergraduate     Approval from examination committee required.					
Contonto					
Current topics of Theoretical Physics. Accredited academic achievements, e.g. in case of change of university or study abroad.					
Intended learning outcomes					
The students have advanced competencies corresponding to the requirements of a module of Theoretical Phy- sics of the Bachelor's programme. They have advanced specialist knowledge of a subdiscipline of Theoretical Physics and have mastered the required methods. They are able to apply the acquired methods to current pro- blems of Theoretical Physics.					
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)					
V (3) + R (1)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocation of places					
Additional information					
Workload					
180 h					
Teaching cycle					
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					

Intervetical Physics         Module coordinator         Module coordinator       Module offered by         chairperson of examination committee       Faculty of Physics and Astronomy         ECTS         Method of grading       Only after succ. compl. of module(s)         8       numerical grade          Duration         Module level       Other prerequisites					
Module coordinator       Module offered by         chairperson of examination committee       Faculty of Physics and Astronomy         ECTS       Method of grading       Only after succ. compl. of module(s)         8       numerical grade          Duration       Module level       Other prerequisites					
chairperson of examination committee       Faculty of Physics and Astronomy         ECTS       Method of grading       Only after succ. compl. of module(s)         8       numerical grade          Duration       Module level       Other prerequisites					
ECTS       Method of grading       Only after succ. compl. of module(s)         8       numerical grade          Duration       Module level       Other prerequisites					
8     numerical grade        Duration     Module level     Other prerequisites					
Duration         Module level         Other prerequisites					
Approval from examination committee required.					
Contents					
Current topics of Theoretical Physics. Accredited academic achievements, e.g. in case of change of university or study abroad.					
Intended learning outcomes					
The students have advanced competencies corresponding to the requirements of a module of Theoretical Phy- sics of the Bachelor's programme. They have advanced specialist knowledge of a subdiscipline of Theoretical Physics and have mastered the required methods. They are able to apply the acquired methods to current pro- blems of Theoretical Physics.					
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)					
V (4) + R (2)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocation of places					
Additional information					
Workload					
240 h					
Teaching cycle					
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					

Module title					Abbreviation
Selecte	ed Topi	cs in Astrophysics			11-CSA6-152-m01
Module coordinator				Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
Selecte	ed topic	s of Astrophysics.			
Intende	ed lear	ning outcomes			
The stu tion me know tl	idents l ethods he appl	have basic knowledge of necessary to acquire this lication areas.	a current field of Astr knowledge. They are	ophysics and under able to classify the	stand the measuring and evalua- subject-specific contexts and
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
Method module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
180 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					

Module	Module title Abbreviation					
Selected Topics in Solid State Physics					11-CSF6-152-m01	
Module coordinator				Module offered by		
chairpe	erson o	f examination committee	-	Faculty of Physics a	and Astronomy	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
6	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Selecte	d topic	s of Solid-State Physics.				
Intende	ed leari	ning outcomes				
The stu and eva texts ar	dents l aluation nd knov	have basic knowledge of n methods necessary to a w the application areas.	a specialist field of S acquire this knowleds	olid-State Physics a ge. They are able to o	nd understand the measuring classify the subject-specific con-	
Course	<b>S</b> (type, n	number of weekly contact hours, l	anguage — if other than Ger	rman)		
V (3) +	R (1)					
Method module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
written or oral pages) If a writ stead t of asse nation Langua	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Workload						
180 h						
Teaching cycle						
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						

Module title					Abbreviation
Selecte	Selected Topics in Particle Physics 11-CST6-152-m01				
Module coordinator				Module offered by	
chairpe	erson of	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Selecte	ed topic	s of Particle Physics.			
Intende	ed learı	ning outcomes			
The stu theoret and kn	idents l fical me ow the	nave basic knowledge of thods necessary to acqu application areas.	a special field of Eler ire this knowledge. T	nentary Particle Phys hey are able to class	sics and of the experimental or sify the subject-specific contexts
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
Metho module is	<b>d of ass</b> s creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the essmen date at age of a	nation (approx. 90 to 120 ation in groups (groups of centation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one cano tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	onal info	ormation			
Workload					
180 h					
Teaching cycle					
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					

Module title					Abbreviation
Selected Topics in Theoretical Physics					11-CSTh6-152-m01
Module coordinator				Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
Selecte	d topic	s of Theoretical Physics.			
Intende	ed lear	ning outcomes			
The stu mather	dents natical	have basic knowledge of methods. They are able t	a special field of The to apply the acquired	oretical Physics and methods to current	have mastered the necessary problems of Theoretical Physics.
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
Methoo module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
or oral of pages) If a written stead ta of assention of Langua	examin examin or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 nation in groups (groups of sentation/talk (approx. 30 amination was chosen as a form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of <sub>l</sub>	olaces			
Additio	nal inf	ormation			
Workload					
180 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	



## Winter Term 2021

(ECTS credits)

Module	Module title Abbreviation						
Current	t Topics	s in Experimental Physics	5		11-BXE5-152-m01		
Module coordinator				Module offered by			
chairperson of examination committee				Faculty of Physics a	ind Astronomy		
ECTS	ECTS Method of grading Only after succ. compl. of module(s)						
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.		
Conten	ts						
Current or stud	t topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university		
Intende	ed learı	ning outcomes					
The stu sics of unders classify	dents l the Bac tand th / the su	nave advanced competer chelor's programme. They e measuring and/or eval bject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	o the requirements of a current subdiscipli essary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to		
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)			
V (2) +	R (2)						
Method module is	<b>d of ass</b> s creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether		
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.							
Allocat	ion of p	olaces					
Additional information							
Workload							
150 h							
Teaching cycle							
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)						

Module	Module title Abbreviation						
Current Topics in Experimental Physics					11-BXE6-152-m01		
Module coordinator				Module offered by			
chairperson of examination committee			_	Faculty of Physics a	ind Astronomy		
ECTS	ECTS Method of grading Only after su			npl. of module(s)			
6	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.		
Conten	ts						
Current or study	topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university		
Intende	ed learı	ning outcomes					
The stu sics of t underst classify	dents l the Bac tand th the su	nave advanced competer chelor's programme. They e measuring and/or eval bject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	o the requirements of a current subdiscipli essary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to		
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)			
V (3) +	R (1)						
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)							
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.							
Allocat	ion of p	olaces					
Additio	nal inf	ormation					
Workload							
180 h							
Teaching cycle							
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)						

Module	Module title Abbreviation						
Current	t Topics	s in Experimental Physics	5		11-BXE8-152-m01		
Module coordinator				Module offered by			
chairperson of examination committee				Faculty of Physics and Astronomy			
ECTS	TS Method of grading Only after succ.			npl. of module(s)			
8	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.		
Conten	ts						
Current or stud	topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university		
Intende	ed learı	ning outcomes					
The stu sics of unders classify	dents l the Bac tand th the su	nave advanced competer chelor's programme. They e measuring and/or eval bject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	to the requirements of a current subdiscipli essary to acquire this ion areas.	of a module of Experimental Phy- ne of Experimental Physics and 5 knowledge. They are able to		
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	rman)			
V (4) +	R (2)						
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)							
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.							
Allocat	ion of p	olaces					
Additional information							
Workload							
240 h							
Teaching cycle							
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)						

Current Topics in Theoretical Physics       11-BXT5-152-m01         Module coordinator       Module offered by         chairperson of examination committee       Faculty of Physics and Astronomy         ECTS       Method of grading       Only after succ. compl. of module(s)         5       numerical grade						
Module coordinator       Module offered by         chairperson of examination committee       Faculty of Physics and Astronomy         ECTS       Method of grading       Only after succ. compl. of module(s)         5       numerical grade						
chairperson of examination committee     Faculty of Physics and Astronomy       ECTS     Method of grading     Only after succ. compl. of module(s)       5     numerical grade						
ECTS     Method of grading     Only after succ. compl. of module(s)       5     numerical grade						
5 numerical grade						
Duration Module level Other prerequisites						
1 semester undergraduate Approval from examination committee required.						
Contents						
Current topics of Theoretical Physics. Accredited academic achievements, e.g. in case of change of university of study abroad.						
Intended learning outcomes						
The students have advanced competencies corresponding to the requirements of a module of Theoretical Phy- sics of the Bachelor's programme. They have advanced specialist knowledge of a subdiscipline of Theoretical Physics and have mastered the required methods. They are able to apply the acquired methods to current pro- blems of Theoretical Physics.						
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)						
V (2) + R (2)						
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.						
Allocation of places						
Additional information						
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						

Module	Module title Abbreviation					
Current Topics in Theoretical Physics					11-BXT6-152-m01	
Module coordinator				Module offered by		
chairperson of examination committee				Faculty of Physics a	nd Astronomy	
ECTS Method of grading Only after succ. compl. of module(s)						
6 numerical grade						
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or	
Intende	ed learı	ning outcomes				
The stu sics of t Physics blems o	dents l the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t / have advanced spee d methods. They are	o the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-	
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.						
Allocat	ion of p	olaces				
Additional information						
Workload						
180 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					

Module title Abbreviation						
Current	t Topics	s in Theoretical Physics			11-BXT8-152-m01	
Module coordinator				Module offered by		
chairperson of examination committee				Faculty of Physics a	nd Astronomy	
ECTS	ECTS Method of grading Only after succ. compl.			npl. of module(s)		
8 numerical grade						
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or	
Intende	ed learr	ning outcomes				
The stu sics of Physics blems o	dents ł the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t y have advanced spee d methods. They are	o the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-	
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (4) +	R (2)					
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.						
Allocat	ion of p	olaces				
Additional information						
Workload						
240 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					

Module	Module title Abbreviation						
Selected Topics in Astrophysics					11-CSA6-152-m01		
Module coordinator				Module offered by			
chairperson of examination committee			Faculty of Physics a	and Astronomy			
ECTS	Metho	od of grading	Only after succ. com	ıly after succ. compl. of module(s)			
6	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.		
Conten	ts						
Selecte	ed topic	s of Astrophysics.					
Intende	ed lear	ning outcomes					
The stu tion me know tl	idents l ethods he appl	have basic knowledge of necessary to acquire this lication areas.	a current field of Astr knowledge. They are	ophysics and under able to classify the	stand the measuring and evalua- subject-specific contexts and		
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)			
V (3) +	R (1)						
Method module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether		
written or oral pages) If a writ stead t of asse nation Langua	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.						
Allocat	ion of p	olaces					
Additio	nal inf	ormation					
Workload							
180 h							
Teaching cycle							
Referred to in LPO I (examination regulations for teaching-degree programmes)							

Module title Abbreviation							
Selected Topics in Solid State Physics					11-CSF6-152-m01		
Module coordinator				Module offered by			
chairperson of examination committee		_	Faculty of Physics a	ind Astronomy			
ECTS	CTS Method of grading Only after succ. co			pl. of module(s)			
6	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.		
Conten	ts						
Selecte	ed topic	s of Solid-State Physics.					
Intende	ed lear	ning outcomes					
The stu and eva texts a	idents l aluation nd know	have basic knowledge of n methods necessary to a w the application areas.	a specialist field of S acquire this knowledg	olid-State Physics a ge. They are able to c	nd understand the measuring classify the subject-specific con-		
Course	<b>S</b> (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)			
V (3) +	R (1)						
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)							
written or oral pages) If a writ stead t of asse nation Langua	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.						
Allocat	ion of p	olaces					
Additio	nal inf	ormation					
Workload							
180 h							
Teaching cycle							
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)							

Module	e title			Abbreviation		
Selected Topics in Particle Physics					11-CST6-152-m01	
Module coordinator				Module offered by		
chairperson of examination committee			Faculty of Physics a	ind Astronomy		
ECTS Method of grading Only after succ. compl. of module(s)						
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.	
Conten	ts					
Selecte	ed topic	s of Particle Physics.				
Intende	ed lear	ning outcomes				
The stu theoret and kn	idents l fical me ow the	have basic knowledge of ethods necessary to acqu application areas.	a special field of Eler ire this knowledge. T	nentary Particle Phys hey are able to class	sics and of the experimental or sify the subject-specific contexts	
Course	<b>S</b> (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.						
Allocat	ion of p	olaces				
Additio	onal info	ormation				
Workload						
180 h						
Teaching cycle						
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						
Module title					Abbreviation	
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Selected Topics in Theoretical Physics					11-CSTh6-152-m01	
Module	e coord	inator		Module offered by		
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
6	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.	
Conten	ts					
Selecte	d topic	s of Theoretical Physics.				
Intende	ed lear	ning outcomes				
The stu mather	dents natical	have basic knowledge of methods. They are able t	a special field of The to apply the acquired	oretical Physics and methods to current	have mastered the necessary problems of Theoretical Physics.	
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
Methoo module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
or oral of pages) If a written stead ta of assention of Langua	examin examin or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 nation in groups (groups of sentation/talk (approx. 30 amination was chosen as a form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of <sub>l</sub>	olaces				
Additio	nal inf	ormation				
Workload						
180 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					



## Summer Term 2022

Current Topics in Experimental Physics       11-BXE5-152-m01         Module coordinator       Faculty of Physics and Astronomy         ECTS       Method of grading       Only after succ. compl. of module(s)         5       numerical grade       -         Duration       Module level       Other prerequisites         1 semester       undergraduate       Approval from examination committee required.         Contents       Contents       -         Etted be arring outcomes       The students have advanced competencies corresponding to the requirements of a module of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.         Courset (type, number of weekly contact hours, language – if other than German, examination of one candidate each (approx. 30 minutes) or cral examination of one candidate each (approx. 30 minutes) or cral examination in groups (groups of 2, approx. 30 minutes).         or calculated for bonus       written examination (approx. 90 to 120 minutes).         or calculated for bonus       written examination of and leverting out of a subsessment, this may be changed and assessment may in-stead take form of an oral examination of one candidate each or an oral examination of groups. 8 to 10 pages) or presentation/ralk (approx. 30 minutes).         or calculated for bonus       If other than German, examination of one candidate each (approx. 30 to 10 pages) or presentation (ralk (approx. 30 minutes). <th>Module</th> <th colspan="6">Module title Abbreviation</th>	Module	Module title Abbreviation					
Module coordinator       Module offered by         chairperson of examination committee       Faculty of Physics and Astronomy         ECTS       Method of grading       Only after succ. compl. of module(s)         5       numerical grade          Duration       Module level       Other prerequisites         1 semester       undergraduate       Approval from examination committee required.         Contents       Contents          Current topics of Experimental Physics. Accredited academic achievements, e.g. in case of change of university or study abroad.          Intended lear-flop outcomes           The students have advanced competencies corresponding to the requirements of a module of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.         Courses (type, number of weekly contact hours, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)         written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups. If the method of assessment (type, scope, language – if other than German, examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination for a calcidate each or an oral examination in groups. If the method of assesssment i	Current	t Topics	s in Experimental Physic	5		11-BXE5-152-m01	
chairperson or examination committee       Faculty of Physics and Astronomy         ECTS       Method f grading       Only after succ. compl. of module(s)         5       numetrial grade	Module	e coord	inator		Module offered by		
ECTS         Metion of grading         Only after succ. compl. of module(s)           5         numerical grade            Duration         Module level         Opproval from examination committee required.           Contents	chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy	
5       numerical grade          Duration       Module level       Other prerequisites         1 semester       undergraduate       Approval from examination committee required.         Contents       Contents       Semester       In case of change of university or study abroad.         Intended learning outcomes       Intended learning outcomes       Intended learning outcomes         The students have advanced competencies corresponding to the requirements of a module of Experimental Physics and understand the measuing and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.         Courses (type, number of weekly contact hours, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)         written examination (approx. 90 to 120 minutes) or oral examination offered – if not every semester, information on pages) or presentation/talk (approx. 30 minutes) or oral examination of one candidate each (approx. 30 minutes).         If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.         Language of assessment: German and/or English       Allocation of an call examination regulation of one candidate each or an oral examination in groups. If the method of assessment is changed	ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
Duration         Module level         Other prerequisites           1 semester         undergraduate         Approval from examination committee required.           Contents         Contents         Contents           Intended learning outcomes         Contents         Contents           Intended learning outcomes         Contents of Experimental Physics. Accredited academic achievements, e.g. in case of change of university or study abroad.           Intended learning outcomes         Contents         Contents of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.           Courses (type, number of weekly contact hours, language – if other than German)         V (2) + R (2)           Wethod of assessment (type, scope, language – if other than German, examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes) or oral examination of one candidate each (approx. 30 minutes)           Written examination (approx. 90 to 10 minutes) or oral examination of one candidate each (approx. 30 minutes)           If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination or must chosen as method of assessment is form students about this by four weeks prior to the original examination at the latest.           Language of assessment: German and/or English           Allocation of laces           Teaching	5	nume	rical grade				
1 semester       undergraduate       Approval from examination committee required.         Corrent topics of Experimental Physics. Accredited academic achievements, e.g. in case of change of university or study abroad.         Intended learning outcomes         The students have advanced competencies corresponding to the requirements of a module of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.         Courses (type, number of weekly contact hours, language – if other than German)         V (2) + R (2)         Method of assessment (type, scope, language – if other than German)         written examination (approx. 9 to to to minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes) per candidate) or project report (approx. 8 to to pages) or presentation/talk (approx. 30 minutes).         If a written examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to to pages) or presentation/talk (approx. 30 minutes).         If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination or candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination at the latest.         Language of assessment: German and/or English </td <td>Duratio</td> <td>n</td> <td>Module level</td> <td>Other prerequisites</td> <td></td> <td></td>	Duratio	n	Module level	Other prerequisites			
Contents         Current topics of Experimental Physics. Accredited academic achievements, e.g. in case of change of university or study abroad.         Intended learning outcomes         The students have advanced competencies corresponding to the requirements of a module of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.         Courses (type, number of weekly contact hours, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)         Written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination of one candidate each (approx. 30 minutes).         If a written examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).         If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.         Language of assessment: German and/or English         Allocation of places               Workload         150 h         Teaching cycle            Referred to in LPO 1 (examination	1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.	
Current topics of Experimental Physics. Accredited academic achievements, e.g. in case of change of university or study abroad. Intended learning outcomes The students have advanced competencies corresponding to the requirements of a module of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas. Courses (type, number of weekly contact hours, language – if other than German) V (2) + R (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Allocation of places	Conten	ts					
Intended learning outcomes The students have advanced competencies corresponding to the requirements of a module of Experimental Physics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas. Courses (type, number of weekly contact hours, language – if other than German) V (2) + R (2) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). if a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Allocation of places Morkload Workload Referred to in LPO I (examination regulations for teaching-degree programmes)	Current or stud	t topics y abroa	of Experimental Physics ad.	Accredited academi	c achievements, e.g	. in case of change of university	
The students have advanced competencies corresponding to the requirements of a module of Experimental Physics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas. Courses (type, number of weekly contact hours, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) V (2) + R (2) Method of assessment (type, scope, language – if other than German, examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes) per candidate) or project report (approx. 8 to 10 pages) or presentation /talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English Allocation of places Morkload Workload Referred to in LPO I (examination regulations for teaching-degree programmes)	Intende	ed lear	ning outcomes				
Courses (type, number of weekly contact hours, language – if other than German)         V (2) + R (2)         Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)         written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).         If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.         Language of assessment: German and/or English         Allocation of places            Additional information            Morkload         150 h         Teaching cycle            Referred to in LPOI (examination for teaching-degree programmes)	The stu sics of unders classify	dents l the Bao tand th / the su	have advanced competer chelor's programme. The le measuring and/or eval lbject-specific contexts a	ncies corresponding t y have knowledge of uation methods nece nd know the applicat	to the requirements of a current subdiscipli a current subdiscipli assary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to	
V (2) + R (2)  Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)  written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may in- stead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original exami- nation date at the latest. Language of assessment: German and/or English Allocation of places  Morkload  Workload  Referred to in LPO I (examination regulations for teaching-degree programmes)	Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)         written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes).         If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.         Language of assessment: German and/or English         Allocation of places            Workload         150 h         Teaching cycle            Referred to in LPO I (examination regulations for teaching-degree programmes)	V (2) +	R (2)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may in- stead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original exami- nation date at the latest. Language of assessment: German and/or English Allocation of places  Moditional information  Workload 150 h Teaching cycle  Referred to in LPO I (examination for teaching-degree programmes) 	Method module is	<b>d of ass</b> creditab	<b>Sessment</b> (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether	
Allocation of places Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes)	written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the ssmen date at age of a	nation (approx. 90 to 120 nation in groups (groups of sentation/talk (approx. 30 amination was chosen as a form of an oral examina t is changed, the lecturer the latest. ssessment: German and	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be cha e each or an oral exa is about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes)	Allocat	ion of p	olaces				
Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes)							
 Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes)	Additio	Additional information					
Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes)							
150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes)	Workload						
Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes)	150 h						
Referred to in LPO I (examination regulations for teaching-degree programmes)	Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)							
	Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		

Module title Abbreviation					
Current Topics in Experimental Physics			11-BXE6-152-m01		
coordinator		Module offered by			
son of examination committee		Faculty of Physics a	ind Astronomy		
Aethod of grading	Only after succ. com	pl. of module(s)			
numerical grade					
Module level	Other prerequisites				
er undergraduate	Approval from exam	ination committee re	equired.		
;					
opics of Experimental Physics. abroad.	Accredited academi	c achievements, e.g.	. in case of change of university		
learning outcomes					
ents have advanced competer e Bachelor's programme. They nd the measuring and/or eval he subject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	o the requirements of a current subdiscipli ssary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and 5 knowledge. They are able to		
(type, number of weekly contact hours, l	anguage — if other than Ger	man)			
(1)					
<b>of assessment</b> (type, scope, langua reditable for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether		
xamination (approx. 90 to 120 kamination in groups (groups of r presentation/talk (approx. 30 en examination was chosen as the form of an oral examination sment is changed, the lecturer ate at the latest. e of assessment: German and/	minutes) or oral example of 2, approx. 30 minuto minutes). method of assessme tion of one candidate must inform student for English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-		
n of places					
Additional information					
Workload					
180 h					
Teaching cycle					
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					
	opics in Experimental Physics         oordinator         on of examination committee         Nethod of grading         umerical grade         Module level         er         undergraduate         opics of Experimental Physics.         abroad.         learning outcomes         ents have advanced competer         e Bachelor's programme. They         nd the measuring and/or eval         ne subject-specific contexts a         type, number of weekly contact hours, I         (1)         of assessment (type, scope, langua         editable for bonus)         xamination (approx. 90 to 120         amination in groups (groups of presentation/talk (approx. 30         n examination was chosen as         e the form of an oral examina         ment is changed, the lecturer         te at the latest.         e of assessment: German and/or         al information         to in LPO I (examination regulation	opics in Experimental Physics         oordinator         on of examination committee         tethod of grading       Only after succ. commitmerical grade         imerical grade          Module level       Other prerequisites         er       undergraduate       Approval from exammination academination methods neces         tearning outcomes       ents have advanced competencies corresponding to a Bachelor's programme. They have knowledge of a Bachelor's programme. They have knowledge of a big academination methods neces         te subject-specific contexts and know the applicate type, number of weekly contact hours, language — if other than German, academination (approx. 90 to 120 minutes) or oral examination in groups (groups of 2, approx. 30 minute).         of assessment (type, scope, language — if other than German, academination in groups (groups of 2, approx. 30 minute).         on examination was chosen as method of assessme e the form of an oral examination of one candidate ment is changed, the lecturer must inform student te at the latest.         e of assessment: German and/or English         n of places         attinformation         to attine the total for the form of an oral examination of one candidate for assessment: German and/or English         n of places	Module offered by         optics in Experimental Physics         Module offered by         on of examination committee       Faculty of Physics a         tack of grading         Only after succ. compl. of module(s)         umerical grade            Module level       Other prerequisites         er       undergraduate       Approval from examination committee restricts         optics of Experimental Physics. Accredited academic achievements, e.g.       abroad.         learning outcomes       ents have advanced competencies corresponding to the requirements of e Bachelor's programme. They have knowledge of a current subdiscipil and the measuring and/or evaluation methods necessary to acquire this ne subject-specific contexts and know the application areas.         type, number of weekly contact hours, language — if other than German)       [1)         of assessment (type, scope, language — if other than German, examination offered — if no editable for bonus)         trainination (approx. 90 to 120 minutes).       on an animation of an oral examination of one candidate each or an oral examination was chosen as method of assessment, this may be chaa et he form of an oral examination of one candidate each or an oral examination of an oral examination of one candidate each or an oral examination of a scasessment: German and/or English         n of places       at the latest.         of assessment: German and/		

Module title Abbreviation					Abbreviation
Current Topics in Experimental Physics					11-BXE8-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
8	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current or stud	topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university
Intende	ed learı	ning outcomes			
The stu sics of unders classify	dents l the Bac tand th the su	nave advanced competer chelor's programme. They e measuring and/or eval bject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	o the requirements of a current subdiscipli essary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (4) +	R (2)				
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral pages) If a writ stead ta of asse nation Langua	examin examin or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 aation in groups (groups of centation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be char e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additional information					
Workload					
240 h					
Teaching cycle					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				

Module title Abbreviation					Abbreviation
Current Topics in Theoretical Physics					11-BXT5-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson of	fexamination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learr	ning outcomes			
The stu sics of t Physics blems o	dents ł the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t y have advanced spee d methods. They are	to the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	rman)	
V (2) +	R (2)				
Methoo module is	d of ass creditab	e <b>ssment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral o pages) If a writ stead ta of asse nation Langua	examin examin or pres ten exa ake the ssment date at ge of a	nation (approx. 90 to 120 ation in groups (groups of entation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral example of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be char e each or an oral exa is about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additional information					
Workload					
150 h					
Teaching cycle					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				

Module title Ab					Abbreviation
Current Topics in Theoretical Physics					11-BXT6-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learı	ning outcomes			
The stu sics of t Physics blems o	dents l the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t y have advanced spee d methods. They are	o the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral o pages) If a writ stead ta of asse nation o Langua	examin examin or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 lation in groups (groups of sentation/talk (approx. 30 amination was chosen as form of an oral examinat t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral example of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additional information					
Workload					
180 h					
Teaching cycle					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				

Module title Abbreviation					Abbreviation
Current Topics in Theoretical Physics					11-BXT8-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
8	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learı	ning outcomes			
The stu sics of t Physics blems o	dents l the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t / have advanced spee d methods. They are	o the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (4) +	R (2)				
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral o pages) If a writ stead ta of asse nation Langua	examin examin or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 action in groups (groups of centation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral example of 2, approx. 30 minuto minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be char e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additional information					
Workload					
240 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module	Module title Abbreviation				
Selected Topics in Astrophysics					11-CSA6-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
Selecte	ed topic	s of Astrophysics.			
Intende	ed lear	ning outcomes			
The stu tion me know tl	idents l ethods he appl	have basic knowledge of necessary to acquire this lication areas.	a current field of Astr knowledge. They are	ophysics and under able to classify the	stand the measuring and evalua- subject-specific contexts and
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
Method module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the essmen date at age of a	nation (approx. 90 to 120 action in groups (groups of centation/talk (approx. 30 amination was chosen as e form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
180 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					

Module title A					Abbreviation
Selected Topics in Solid State Physics					11-CSF6-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Selecte	ed topic	s of Solid-State Physics.			
Intende	ed lear	ning outcomes			
The stu and eva texts a	idents l aluation nd know	have basic knowledge of n methods necessary to a w the application areas.	a specialist field of S acquire this knowledg	olid-State Physics a ge. They are able to c	nd understand the measuring classify the subject-specific con-
Course	<b>S</b> (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
Metho module is	<b>d of ass</b> s creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the essmen date at ige of a	nation (approx. 90 to 120 lation in groups (groups of sentation/talk (approx. 30 amination was chosen as e form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one cano tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	onal info	ormation			
Workload					
180 h					
Teaching cycle					
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					

Module title					Abbreviation	
Selected Topics in Particle Physics					11-CST6-152-m01	
Module	e coord	inator		Module offered by		
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.	
Conten	ts					
Selecte	ed topic	s of Particle Physics.				
Intende	ed lear	ning outcomes				
The stu theoret and kn	idents l fical me ow the	have basic knowledge of ethods necessary to acqu application areas.	a special field of Eler ire this knowledge. T	nentary Particle Phys hey are able to class	sics and of the experimental or sify the subject-specific contexts	
Course	<b>S</b> (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
Metho module is	<b>d of ass</b> s creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the essmen date at age of a	nation (approx. 90 to 120 lation in groups (groups of sentation/talk (approx. 30 amination was chosen as e form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces				
Additio	onal info	ormation				
Workload						
180 h						
Teaching cycle						
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						

Module title					Abbreviation
Selected Topics in Theoretical Physics					11-CSTh6-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
Selecte	d topic	s of Theoretical Physics.			
Intende	ed lear	ning outcomes			
The stu mather	dents natical	have basic knowledge of methods. They are able t	a special field of The to apply the acquired	oretical Physics and methods to current	have mastered the necessary problems of Theoretical Physics.
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
Methoo module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
or oral of pages) If a written stead ta of asse nation of Langua	examin examin or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 nation in groups (groups of sentation/talk (approx. 30 amination was chosen as a form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of <sub>l</sub>	olaces			
Additio	nal inf	ormation			
Workload					
180 h					
Teaching cycle					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				



## Winter Term 2022

Module	Module title Abbreviation				
Current Topics in Experimental Physics					11-BXE5-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current or stud	t topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university
Intende	ed leari	ning outcomes			
The stu sics of unders classify	dents l the Bac tand th / the su	nave advanced competer chelor's programme. They e measuring and/or eval bject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	o the requirements of a current subdiscipli essary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) +	R (2)				
Method module is	<b>d of ass</b> s creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 lation in groups (groups of sentation/talk (approx. 30 amination was chosen as form of an oral examina- t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
150 h					
Teachi	Teaching cycle				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module	e title				Abbreviation
Current Topics in Experimental Physics			5		11-BXE6-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee	_	Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current or stud	topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university
Intende	ed learı	ning outcomes			
The students have advanced competencies corresponding to the requirements of a module of Experimental Phy- sics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.				of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to	
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)					
V (3) +	R (1)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the methoc of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.				didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
180 h					
Teachi	ng cycl	е			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module	e title				Abbreviation
Current Topics in Experimental Physics					11-BXE8-152-m01
Module coordinator				Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
8	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current or stud	topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g	. in case of change of university
Intende	ed learı	ning outcomes			
The stu sics of t underst classify	The students have advanced competencies corresponding to the requirements of a module of Experimental Phy- sics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.				
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)					
V (4) +	R (2)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.				didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
240 h					
Teachir	ng cycl	е			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module title Abbreviation					Abbreviation
Current Topics in Theoretical Physics11-BXT5-152-m01				11-BXT5-152-m01	
Module	e coord	inator		Module offered by	
chairpe	erson of	fexamination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	after succ. compl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learr	ning outcomes			
The stu sics of t Physics blems o	The students have advanced competencies corresponding to the requirements of a module of Theoretical Phy- sics of the Bachelor's programme. They have advanced specialist knowledge of a subdiscipline of Theoretical Physics and have mastered the required methods. They are able to apply the acquired methods to current pro- blems of Theoretical Physics.				of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)					
V (2) + R (2)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written or oral o pages) If a writ stead ta of asse nation Langua	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.				didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teachir	ng cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module	e title				Abbreviation	
Current Topics in Theoretical Physics					11-BXT6-152-m01	
Module coordinator				Module offered by		
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
6	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or	
Intende	ed learı	ning outcomes				
The students have advanced competencies corresponding to the requirements of a module of Theoretical Phy- sics of the Bachelor's programme. They have advanced specialist knowledge of a subdiscipline of Theoretical Physics and have mastered the required methods. They are able to apply the acquired methods to current pro- blems of Theoretical Physics.					of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-	
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)						
V (3) +	R (1)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.				didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-		
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
180 h						
Teachir	ng cycl	e				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		

Intervetical Physics         Module coordinator         Module coordinator       Module offered by         chairperson of examination committee       Faculty of Physics and Astronomy         ECTS         Method of grading       Only after succ. compl. of module(s)         8       numerical grade          Duration         Module level       Other prerequisites				
Module coordinator       Module offered by         chairperson of examination committee       Faculty of Physics and Astronomy         ECTS       Method of grading       Only after succ. compl. of module(s)         8       numerical grade          Duration       Module level       Other prerequisites				
chairperson of examination committee       Faculty of Physics and Astronomy         ECTS       Method of grading       Only after succ. compl. of module(s)         8       numerical grade          Duration       Module level       Other prerequisites				
ECTS       Method of grading       Only after succ. compl. of module(s)         8       numerical grade          Duration       Module level       Other prerequisites				
8     numerical grade        Duration     Module level     Other prerequisites				
Duration         Module level         Other prerequisites				
Approval from examination committee required.				
Contents				
Current topics of Theoretical Physics. Accredited academic achievements, e.g. in case of change of university or study abroad.				
Intended learning outcomes				
The students have advanced competencies corresponding to the requirements of a module of Theoretical Phy- sics of the Bachelor's programme. They have advanced specialist knowledge of a subdiscipline of Theoretical Physics and have mastered the required methods. They are able to apply the acquired methods to current pro- blems of Theoretical Physics.				
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)				
V (4) + R (2)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)				
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.				
Allocation of places				
Additional information				
Workload				
240 h				
Teaching cycle				
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)				

Module title Abbreviation					Abbreviation
Selected Topics in Astrophysics					11-CSA6-152-m01
Module coordinator				Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
Selecte	ed topic	s of Astrophysics.			
Intende	ed lear	ning outcomes			
The stu tion me know tl	The students have basic knowledge of a current field of Astrophysics and understand the measuring and evalua- tion methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.				
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)					
V (3) + R (1)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					t every semester, information on whether
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
180 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module title Abbreviation					Abbreviation
Selected Topics in Solid State Physics					11-CSF6-152-m01
Module coordinator				Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
Selecte	ed topic	s of Solid-State Physics.			
Intend	ed lear	ning outcomes			
The stu and ev texts a	The students have basic knowledge of a specialist field of Solid-State Physics and understand the measuring and evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.				
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)					
V (3) + R (1)					
Metho module is	<b>d of ass</b> s creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral pages) If a writ stead t of asse nation Langua	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.				
Allocat	ion of p	olaces			
Additio	onal inf	ormation			
	_				
Worklo	ad				
180 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
	,				

Module	e title				Abbreviation
Selected Topics in Particle Physics					11-CST6-152-m01
Module coordinator				Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
Selecte	ed topic	s of Particle Physics.			
Intende	ed leari	ning outcomes			
The stu theoret and kn	The students have basic knowledge of a special field of Elementary Particle Physics and of the experimental or theoretical methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.				
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)					
V (3) + R (1)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					ot every semester, information on whether
written or oral pages) If a writ stead t of asse nation Langua	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.				
Allocat	ion of p	olaces			
Additio	onal inf	ormation			
Worklo	ad				
180 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module	e title				Abbreviation
Selected Topics in Theoretical Physics					11-CSTh6-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
Selecte	d topic	s of Theoretical Physics.			
Intende	ed lear	ning outcomes			
The students have basic knowledge of a special field of Theoretical Physics and have mastered the necessary mathematical methods. They are able to apply the acquired methods to current problems of Theoretical Physics.					have mastered the necessary problems of Theoretical Physics.
Course	<b>Courses</b> (type, number of weekly contact hours, language — if other than German)				
V (3) + R (1)					
Methoo module is	<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)				ot every semester, information on whether
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may in- stead take the form of an oral examination of one candidate each or an oral examination in groups. If the metho of assessment is changed, the lecturer must inform students about this by four weeks prior to the original exam nation date at the latest.				didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of <sub>l</sub>	olaces			
Additio	nal inf	ormation			
Worklo	ad				
180 h					
Teachir	ng cycl	e			
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	



## Summer Term 2023

Module	e title				Abbreviation	
Current Topics in Experimental Physics					11-BXE5-152-m01	
Module coordinator				Module offered by		
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	Ifter succ. compl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Current or stud	t topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university	
Intende	ed learı	ning outcomes				
The students have advanced competencies corresponding to the requirements of a module of Experimental Phy- sics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.					of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to	
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)						
V (2) +	R (2)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.				didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-		
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		

Module	e title				Abbreviation
Current Topics in Experimental Physics			5		11-BXE6-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee	_	Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current or stud	topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university
Intende	ed learı	ning outcomes			
The students have advanced competencies corresponding to the requirements of a module of Experimental Phy- sics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.				of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to	
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)					
V (3) +	R (1)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the methoc of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.				didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
180 h					
Teachi	ng cycl	е			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Current Topics in Experimental Physics       11-BXE8-152-m01         Module coordinator       Module offered by				
Module coordinator Module offered by				
module coordinator				
chairperson of examination committee Faculty of Physics and Astronomy				
ECTS Method of grading Only after succ. compl. of module(s)				
8 numerical grade				
Duration Module level Other prerequisites				
1 semester undergraduate Approval from examination committee required.				
Contents				
Current topics of Experimental Physics. Accredited academic achievements, e.g. in case of change of un or study abroad.				
Intended learning outcomes				
The students have advanced competencies corresponding to the requirements of a module of Experimental Phy- sics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.				
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)				
V (4) + R (2)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)				
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.				
Allocation of places				
Additional information				
Workload				
240 h				
Teaching cycle				
Referred to in LPO I (examination regulations for teaching-degree programmes)				

Module title					Abbreviation	
Current Topics in Theoretical Physics 11-BXT					11-BXT5-152-m01	
Module coordinator				Module offered by		
chairperson of examination committee				Faculty of Physics a	ind Astronomy	
ECTS	CTS Method of grading Only after succ. compl. of module(s)					
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or	
Intende	ed learr	ning outcomes				
The stu sics of t Physics blems o	dents ł the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t y have advanced spee d methods. They are	to the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-	
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	rman)		
V (2) +	R (2)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.						
Allocation of places						
Additional information						
Workload						
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					

Module title					Abbreviation	
Current Topics in Theoretical Physics					11-BXT6-152-m01	
Module coordinator				Module offered by		
chairperson of examination committee				Faculty of Physics a	nd Astronomy	
ECTS	ECTS Method of grading Only after succ. compl. of module(s)					
6 numerical grade						
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or	
Intende	ed learı	ning outcomes				
The stu sics of t Physics blems o	dents l the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t / have advanced spee d methods. They are	o the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-	
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.						
Allocation of places						
Additional information						
Workload						
180 h						
Teaching cycle						
Referre	<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					

Module title					Abbreviation	
Current Topics in Theoretical Physics					11-BXT8-152-m01	
Module coordinator				Module offered by		
chairperson of examination committee				Faculty of Physics a	ind Astronomy	
ECTS	TS Method of grading Only after succ. compl. of module(s)					
8	nume	rical grade				
Duratio	n	Module level	Other prerequisites	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or	
Intende	ed learı	ning outcomes				
The stu sics of t Physics blems o	dents l the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t / have advanced spee d methods. They are	o the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-	
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (4) +	R (2)					
<b>Method of assessment</b> (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)						
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.						
Allocation of places						
Additional information						
Workload						
240 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					

Module	Module title Abbreviation					
Selected Topics in Astrophysics					11-CSA6-152-m01	
Module coordinator				Module offered by		
chairperson of examination committee				Faculty of Physics a	and Astronomy	
ECTS	CTS Method of grading Only after succ. co		Only after succ. com	npl. of module(s)		
6	numerical grade					
Duration Module level		Other prerequisites				
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.	
Conten	ts					
Selecte	ed topic	s of Astrophysics.				
Intende	ed lear	ning outcomes				
The stu tion me know tl	idents l ethods he appl	have basic knowledge of necessary to acquire this lication areas.	a current field of Astr knowledge. They are	ophysics and under able to classify the	stand the measuring and evalua- subject-specific contexts and	
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written or oral pages) If a writ stead t of asse nation Langua	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocation of places						
Additional information						
Workload						
180 h						
Teaching cycle						
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		

Module title Abbreviation					Abbreviation	
Selected Topics in Particle Physics					11-CST6-152-m01	
Module coordinator				Module offered by		
chairperson of examination committee				Faculty of Physics and Astronomy		
ECTS	TS Method of grading Only after succ. co			pl. of module(s)		
6	nume	rical grade				
Duration Module level		Other prerequisites				
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.	
Conten	ts					
Selecte	ed topic	s of Particle Physics.				
Intende	ed lear	ning outcomes				
The stu theoret and kn	idents l fical me ow the	nave basic knowledge of thods necessary to acqu application areas.	a special field of Eler ire this knowledge. T	nentary Particle Phys hey are able to class	sics and of the experimental or sify the subject-specific contexts	
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written or oral pages) If a writ stead t of asse nation Langua	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocat	ion of p	olaces				
Additional information						
Workload						
180 h						
Teaching cycle						
Referre	ed to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		

Module title					Abbreviation	
Selected Topics in Solid State Physics					11-CSF6-152-m01	
Module coordinator				Module offered by		
chairperson of examination committee				Faculty of Physics and Astronomy		
ECTS	ECTS Method of grading Only after succ. con			ıpl. of module(s)		
6	nume	rical grade				
Duration Module level		Other prerequisites				
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Selecte	ed topic	s of Solid-State Physics.				
Intende	ed lear	ning outcomes				
The stu and eva texts a	idents l aluation nd know	have basic knowledge of n methods necessary to a w the application areas.	a specialist field of S acquire this knowledg	olid-State Physics a ge. They are able to c	nd understand the measuring classify the subject-specific con-	
Course	<b>S</b> (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
<b>Method of assessment</b> (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)						
written or oral pages) If a writ stead t of asse nation Langua	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocation of places						
Additional information						
Workload						
180 h						
Teaching cycle						
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						



## Winter Term 2023

Module	Module title Abbreviation					
Current Topics in Experimental Physics					11-BXE5-152-m01	
Module coordinator				Module offered by		
chairperson of examination committee				Faculty of Physics a	ind Astronomy	
ECTS	TS Method of grading Only after succ. con			npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Current or stud	t topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university	
Intende	ed leari	ning outcomes				
The stu sics of unders classify	dents l the Bac tand th / the su	nave advanced competer chelor's programme. They e measuring and/or eval bject-specific contexts a	ncies corresponding t / have knowledge of a uation methods nece nd know the applicat	o the requirements of a current subdiscipli essary to acquire this ion areas.	of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to	
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2) +	R (2)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.						
Allocation of places						
Additional information						
Workload						
150 h						
Teaching cycle						
Referre	<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					
Module	e title				Abbreviation	
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Current	t Topics	s in Experimental Physics	5		11-BXE6-152-m01	
Module	e coord	inator		Module offered by		
chairpe	erson of	f examination committee		Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
6	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Current or stud	topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university	
Intende	ed learr	ning outcomes				
The stu sics of unders classify	The students have advanced competencies corresponding to the requirements of a module of Experimental Phy- sics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.					
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
written or oral pages) If a writ stead ta of asse nation Langua	examin examin or pres ten exa ake the ssment date at ge of a	nation (approx. 90 to 120 lation in groups (groups of centation/talk (approx. 30 amination was chosen as form of an oral examina- t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be char e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
180 h						
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		

Module	e title				Abbreviation
Current	t Topics	s in Experimental Physics	5		11-BXE8-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
8	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current or stud	topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university
Intende	ed learı	ning outcomes			
The stu sics of unders classify	The students have advanced competencies corresponding to the requirements of a module of Experimental Phy- sics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.				
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (4) +	R (2)				
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral pages) If a writ stead ta of asse nation Langua	examin examin or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 ation in groups (groups of centation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be char e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
240 h					
Teachi	ng cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module	title				Abbreviation
Current	Topics	s in Theoretical Physics			11-BXT5-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson of	fexamination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learr	ning outcomes			
The stu sics of t Physics blems o	The students have advanced competencies corresponding to the requirements of a module of Theoretical Phy- sics of the Bachelor's programme. They have advanced specialist knowledge of a subdiscipline of Theoretical Physics and have mastered the required methods. They are able to apply the acquired methods to current pro- blems of Theoretical Physics.				
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	rman)	
V (2) +	R (2)				
Methoo module is	d of ass creditab	e <b>ssment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral o pages) If a writ stead ta of asse nation Langua	examin examin or pres ten exa ake the ssment date at ge of a	nation (approx. 90 to 120 ation in groups (groups of entation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral example of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be char e each or an oral exa is about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teachir	ng cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module	e title				Abbreviation
Current	t Topics	s in Theoretical Physics			11-BXT6-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learı	ning outcomes			
The stu sics of t Physics blems o	The students have advanced competencies corresponding to the requirements of a module of Theoretical Phy- sics of the Bachelor's programme. They have advanced specialist knowledge of a subdiscipline of Theoretical Physics and have mastered the required methods. They are able to apply the acquired methods to current pro- blems of Theoretical Physics.				
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral o pages) If a writ stead ta of asse nation o Langua	examin examin or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 lation in groups (groups of sentation/talk (approx. 30 amination was chosen as form of an oral examinat t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral example of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
180 h					
Teachir	ng cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module	e title				Abbreviation
Current	t Topics	s in Theoretical Physics			11-BXT8-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
8	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learı	ning outcomes			
The stu sics of t Physics blems o	The students have advanced competencies corresponding to the requirements of a module of Theoretical Phy- sics of the Bachelor's programme. They have advanced specialist knowledge of a subdiscipline of Theoretical Physics and have mastered the required methods. They are able to apply the acquired methods to current pro- blems of Theoretical Physics.				
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (4) +	R (2)				
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral o pages) If a writ stead ta of asse nation Langua	examin examin or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 action in groups (groups of centation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral example of 2, approx. 30 minuto minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be char e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
240 h					
Teachir	ng cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module	e title				Abbreviation	
Selected Topics in Astrophysics					11-CSA6-152-m01	
Module	e coord	inator		Module offered by		
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.	
Conten	ts					
Selecte	ed topic	s of Astrophysics.				
Intende	ed lear	ning outcomes				
The stu tion me know tl	The students have basic knowledge of a current field of Astrophysics and understand the measuring and evalua- tion methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.					
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)						
V (3) + R (1)						
Method module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the essmen date at age of a	nation (approx. 90 to 120 action in groups (groups of centation/talk (approx. 30 amination was chosen as e form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
180 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		

Module title					Abbreviation	
Selected Topics in Particle Physics					11-CST6-152-m01	
Module	e coord	inator		Module offered by		
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.	
Conten	ts					
Selecte	ed topic	s of Particle Physics.				
Intende	ed lear	ning outcomes				
The students have basic knowledge of a special field of Elementary Particle Physics and of the experimental or theoretical methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.						
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)						
V(3) + R(1)						
Metho module is	<b>d of ass</b> s creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the essmen date at age of a	nation (approx. 90 to 120 lation in groups (groups of sentation/talk (approx. 30 amination was chosen as e form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces				
Additio	onal info	ormation				
Worklo	ad					
180 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		

Module	e title				Abbreviation	
Selected Topics in Solid State Physics					11-CSF6-152-m01	
Module coordinator				Module offered by		
chairpe	erson o	f examination committee	-	Faculty of Physics a	and Astronomy	
ECTS Method of grading Only after succ. compl. of module(s)						
6	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Selecte	d topic	s of Solid-State Physics.				
Intende	ed lear	ning outcomes				
The stu and eva texts ar	The students have basic knowledge of a specialist field of Solid-State Physics and understand the measuring and evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.					
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)						
V (3) +	V (3) + R (1)					
Method module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres ten exa ake the ssmen date at <u>ge of a</u>	nation (approx. 90 to 120 lation in groups (groups of sentation/talk (approx. 30 amination was chosen as e form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
180 h						
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		

Module	e title				Abbreviation	
Selected Topics in Theoretical Physics					11-CSTh6-152-m01	
Module	e coord	inator		Module offered by		
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
6	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.	
Conten	ts					
Selecte	d topic	s of Theoretical Physics.				
Intende	ed lear	ning outcomes				
The stu mather	The students have basic knowledge of a special field of Theoretical Physics and have mastered the necessary mathematical methods. They are able to apply the acquired methods to current problems of Theoretical Physics.					
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	rman)		
V (3) +	R (1)					
Methoo module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether	
written or oral pages) If a writ stead ta of asse nation Langua	examin examir or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 pation in groups (groups of sentation/talk (approx. 30 amination was chosen as a form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	o minutes) or oral exa of 2, approx. 30 minu o minutes). The method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa is about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of <sub>l</sub>	olaces				
Additio	nal inf	ormation				
Worklo	ad					
180 h						
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		



## Summer Term 2024

(ECTS credits)

Module	e title				Abbreviation
Current Topics in Experimental Physics					11-BXE5-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current or stud	t topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university
Intende	ed learı	ning outcomes			
The students have advanced competencies corresponding to the requirements of a module of Experimental Phy- sics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.					
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) +	R (2)				
Method module is	<b>d of ass</b> s creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral pages) If a writ stead t of asse nation Langua	examin examin or pres tten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 lation in groups (groups of sentation/talk (approx. 30 amination was chosen as form of an oral examina- t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module	e title				Abbreviation
Current Topics in Experimental Physics					11-BXE6-152-m01
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee	_	Faculty of Physics a	ind Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current or stud	topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university
Intende	ed learı	ning outcomes			
The stu sics of unders classify	The students have advanced competencies corresponding to the requirements of a module of Experimental Phy- sics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.				
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
written or oral pages) If a writ stead ta of asse nation Langua	examin examin or pres ten exa ake the ssmen date at ge of a	nation (approx. 90 to 120 lation in groups (groups of sentation/talk (approx. 30 amination was chosen as form of an oral examinat t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral exa of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be chan e each or an oral exa s about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
180 h					
Teachi	ng cycl	е			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Current Topics in Experimental Physics    11-BXE8-152-m01      Module coordinator    Module offered by					
Module coordinator Module offered by					
module coordinator					
chairperson of examination committee Faculty of Physics and Astronomy					
ECTS Method of grading Only after succ. compl. of module(s)					
8 numerical grade					
Duration Module level Other prerequisites					
1 semester undergraduate Approval from examination committee required.					
Contents					
Current topics of Experimental Physics. Accredited academic achievements, e.g. in case of change of un or study abroad.					
Intended learning outcomes					
The students have advanced competencies corresponding to the requirements of a module of Experimental Phy- sics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.					
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)					
V (4) + R (2)					
<b>Method of assessment</b> (type, scope, language – if other than German, examination offered – if not every semester, information or module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment m stead take the form of an oral examination of one candidate each or an oral examination in groups. If the of assessment is changed, the lecturer must inform students about this by four weeks prior to the origin nation date at the latest. Language of assessment: German and/or English					
Allocation of places					
Additional information					
Workload					
240 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					

Current Topics in Theoretical Physics    11-BXT5-152-m01      Module coordinator    Module offered by      chairperson of examination committee    Faculty of Physics and Astronomy      ECTS    Method of grading      0nly after succ. compl. of module(s)				
Module coordinator    Module offered by      chairperson of examination committee    Faculty of Physics and Astronomy      ECTS    Method of grading    Only after succ. compl. of module(s)      c    numerical grade    m				
chairperson of examination committee  Faculty of Physics and Astronomy    ECTS  Method of grading  Only after succ. compl. of module(s)				
ECTS  Method of grading  Only after succ. compl. of module(s)				
r numerical grade				
Duration Module level Other prerequisites				
1 semester undergraduate Approval from examination committee required.				
Contents				
Current topics of Theoretical Physics. Accredited academic achievements, e.g. in case of change of university o study abroad.				
Intended learning outcomes				
The students have advanced competencies corresponding to the requirements of a module of Theoretical Phy- sics of the Bachelor's programme. They have advanced specialist knowledge of a subdiscipline of Theoretical Physics and have mastered the required methods. They are able to apply the acquired methods to current pro- blems of Theoretical Physics.				
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)				
V (2) + R (2)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)				
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English				
Allocation of places				
Additional information				
Workload				
150 h				
Teaching cycle				
Referred to in LPO I (examination regulations for teaching-degree programmes)				

Current Topics in Theoretical Physics    11-BXT6-152-m01      Module coordinator    Module offered by      chairperson of examination committee    Faculty of Physics and Astronomy      ECTS    Method of grading    Only after succ. compl. of module(s)      6    numerical grade       Duration    Module level    Other prerequisites      1 semester    undergraduate    Approval from examination committee required.				
Module coordinator    Module offered by      chairperson of examination committee    Faculty of Physics and Astronomy      ECTS    Method of grading    Only after succ. compl. of module(s)      6    numerical grade       Duration    Module level    Other prerequisites      1 semester    undergraduate    Approval from examination committee required.				
Faculty of Physics and Astronomy      ECTS    Method of grading    Only after succ. compl. of module(s)      6    numerical grade       Duration    Module level    Other prerequisites      1 semester    undergraduate    Approval from examination committee required.				
ECTS    Method of grading    Only after succ. compl. of module(s)      6    numerical grade       Duration    Module level    Other prerequisites      1 semester    undergraduate    Approval from examination committee required.				
6  numerical grade     Duration  Module level  Other prerequisites    1 semester  undergraduate  Approval from examination committee required.				
Duration      Module level      Other prerequisites        1 semester      undergraduate      Approval from examination committee required.				
1 semester  undergraduate  Approval from examination committee required.				
Contouto				
Current topics of Theoretical Physics. Accredited academic achievements, e.g. in case of change of university or study abroad.				
Intended learning outcomes				
The students have advanced competencies corresponding to the requirements of a module of Theoretical Phy- sics of the Bachelor's programme. They have advanced specialist knowledge of a subdiscipline of Theoretical Physics and have mastered the required methods. They are able to apply the acquired methods to current pro- blems of Theoretical Physics.				
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)				
V (3) + R (1)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)				
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English				
Allocation of places				
Additional information				
Workload				
180 h				
Teaching cycle				
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)				

Intervetical Physics      Module coordinator      Module coordinator    Module offered by      chairperson of examination committee    Faculty of Physics and Astronomy      ECTS      Method of grading    Only after succ. compl. of module(s)      8    numerical grade       Duration      Module level    Other prerequisites				
Module coordinator    Module offered by      chairperson of examination committee    Faculty of Physics and Astronomy      ECTS    Method of grading    Only after succ. compl. of module(s)      8    numerical grade       Duration    Module level    Other prerequisites				
chairperson of examination committee  Faculty of Physics and Astronomy    ECTS  Method of grading  Only after succ. compl. of module(s)    8  numerical grade     Duration  Module level  Other prerequisites				
ECTS    Method of grading    Only after succ. compl. of module(s)      8    numerical grade       Duration    Module level    Other prerequisites				
8  numerical grade     Duration  Module level  Other prerequisites				
Duration      Module level      Other prerequisites				
Approval from examination committee required.				
Contents				
Current topics of Theoretical Physics. Accredited academic achievements, e.g. in case of change of university or study abroad.				
Intended learning outcomes				
The students have advanced competencies corresponding to the requirements of a module of Theoretical Phy- sics of the Bachelor's programme. They have advanced specialist knowledge of a subdiscipline of Theoretical Physics and have mastered the required methods. They are able to apply the acquired methods to current pro- blems of Theoretical Physics.				
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)				
V (4) + R (2)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)				
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English				
Allocation of places				
Additional information				
Workload				
240 h				
Teaching cycle				
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)				

Module	e title				Abbreviation	
Selected Topics in Astrophysics					11-CSA6-152-m01	
Module coordinator Module offered I			Module offered by	,		
chairperson of examination committee				Faculty of Physics a	and Astronomy	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.	
Conten	ts					
Selecte	ed topic	s of Astrophysics.				
Intende	ed lear	ning outcomes				
The stu tion me know tl	idents l ethods he appl	have basic knowledge of necessary to acquire this lication areas.	a current field of Astr knowledge. They are	ophysics and under able to classify the	stand the measuring and evalua- subject-specific contexts and	
Course	<b>Courses</b> (type, number of weekly contact hours, language — if other than German)					
V (3) +	R (1)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English						
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
180 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		

Module	e title				Abbreviation	
Selected Topics in Particle Physics 11-CST6-152-m01				11-CST6-152-m01		
Module	Module coordinator Module offered by					
chairperson of examination committee Faculty of Physics			Faculty of Physics a	and Astronomy		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate Approval from examination committee required.				
Conten	ts					
Selecte	ed topic	s of Particle Physics.				
Intende	ed leari	ning outcomes				
The stu theoret and kn	idents l tical me ow the	nave basic knowledge of thods necessary to acqu application areas.	a special field of Eler ire this knowledge. T	nentary Particle Phys hey are able to class	sics and of the experimental or sify the subject-specific contexts	
Course	<b>Courses</b> (type, number of weekly contact hours, language — if other than German)					
V (3) +	R (1)					
Method module is	<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English						
Allocat	ion of p	olaces				
Additio	onal info	ormation				
Worklo	ad					
180 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		

Module	e title				Abbreviation	
Selected Topics in Solid State Physics 11-CSF6-152-m01				11-CSF6-152-m01		
Module	e coord	inator		Module offered by		
chairperson of examination committee Faculty of Physics and Astron				nd Astronomy		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate Approval from examination committee required.				
Conten	ts					
Selecte	ed topic	s of Solid-State Physics.				
Intende	ed lear	ning outcomes				
The stu and eva texts ar	The students have basic knowledge of a specialist field of Solid-State Physics and understand the measuring and evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.					
Course	<b>Courses</b> (type, number of weekly contact hours, language — if other than German)					
V (3) +	R (1)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English						
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad		·			
180 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		

Module	e title				Abbreviation	
Selected Topics in Theoretical Physics			i		11-CSTh6-152-m01	
Module coordinator Module offered by						
chairperson of examination committee			Faculty of Physics a	and Astronomy		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
6	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from examination committee required.			
Conten	ts		-			
Selecte	d topic	s of Theoretical Physics.				
Intende	ed lear	ning outcomes				
The stu mather	dents   natical	have basic knowledge of methods. They are able t	a special field of The to apply the acquired	oretical Physics and methods to current	have mastered the necessary problems of Theoretical Physics.	
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	rman)		
V (3) +	R (1)					
Methoo module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether	
or oral pages) If a writ stead ta of asse nation Langua	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English					
Allocat	ion of <sub>l</sub>	olaces				
Additio	nal inf	ormation				
Worklo	ad					
180 h	-					
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		



## Winter Term 2024

(ECTS credits)

Module	e title				Abbreviation	
Current	Current Topics in Experimental Physics 11-BXE5-152-m01				11-BXE5-152-m01	
Module	Module coordinator Module offered by					
chairpe	erson of	f examination committee		Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from examination committee required.			
Conten	ts					
Current or stud	t topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university	
Intende	ed leari	ning outcomes				
The students have advanced competencies corresponding to the requirements of a module of Experimental Phy- sics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.					of a module of Experimental Phy- ine of Experimental Physics and s knowledge. They are able to	
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2) +	R (2)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English						
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		

Module	e title				Abbreviation	
Current	Current Topics in Experimental Physics 11-BXE6-152-mo1				11-BXE6-152-m01	
Module	e coord	inator		Module offered by		
chairpe	erson of	f examination committee		Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
6	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate Approval from examination committee required.				
Conten	ts					
Current or stud	topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university	
Intende	ed learr	ning outcomes				
The stu sics of unders classify	The students have advanced competencies corresponding to the requirements of a module of Experimental Phy- sics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.					
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
Methoo module is	<b>d of ass</b> creditab	s <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English						
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
180 h						
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		

Module	e title				Abbreviation	
Current	t Topics	s in Experimental Physics	5		11-BXE8-152-m01	
Module	e coord	inator		Module offered by		
chairpe	erson o	f examination committee		Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
8	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate	rgraduate Approval from examination committee required.			
Conten	ts					
Current or stud	topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university	
Intende	ed learı	ning outcomes				
The stu sics of unders classify	The students have advanced competencies corresponding to the requirements of a module of Experimental Phy- sics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas.					
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (4) +	R (2)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English						
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
240 h						
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		

Module	title				Abbreviation	
Current	Topics	s in Theoretical Physics			11-BXT5-152-m01	
Module	e coord	inator		Module offered by		
chairpe	erson of	fexamination committee		Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from examination committee required.			
Conten	ts					
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or	
Intende	ed learr	ning outcomes				
The stu sics of t Physics blems o	The students have advanced competencies corresponding to the requirements of a module of Theoretical Phy- sics of the Bachelor's programme. They have advanced specialist knowledge of a subdiscipline of Theoretical Physics and have mastered the required methods. They are able to apply the acquired methods to current pro- blems of Theoretical Physics.					
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	rman)		
V (2) +	R (2)					
Methoo module is	d of ass creditab	e <b>ssment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
written or oral o pages) If a writ stead ta of asse nation Langua	examin examin or pres ten exa ake the ssment date at ge of a	nation (approx. 90 to 120 ation in groups (groups of entation/talk (approx. 30 amination was chosen as form of an oral examina t is changed, the lecturer the latest. ssessment: German and,	minutes) or oral example of 2, approx. 30 minu o minutes). method of assessme tion of one candidate must inform student /or English	mination of one can tes per candidate) o ent, this may be char e each or an oral exa is about this by four	didate each (approx. 30 minutes) r project report (approx. 8 to 10 nged and assessment may in- mination in groups. If the method weeks prior to the original exami-	
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
150 h						
Teachir	ng cycl	e				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		

Current Topics in Theoretical Physics    11-BXT6-152-m01      Module coordinator    Module offered by      chairperson of examination committee    Faculty of Physics and Astronomy      ECTS    Method of grading    Only after succ. compl. of module(s)      6    numerical grade       Duration    Module level    Other prerequisites      1 semester    undergraduate    Approval from examination committee required.				
Module coordinator    Module offered by      chairperson of examination committee    Faculty of Physics and Astronomy      ECTS    Method of grading    Only after succ. compl. of module(s)      6    numerical grade       Duration    Module level    Other prerequisites      1 semester    undergraduate    Approval from examination committee required.				
Faculty of Physics and Astronomy      ECTS    Method of grading    Only after succ. compl. of module(s)      6    numerical grade       Duration    Module level    Other prerequisites      1 semester    undergraduate    Approval from examination committee required.				
ECTS    Method of grading    Only after succ. compl. of module(s)      6    numerical grade       Duration    Module level    Other prerequisites      1 semester    undergraduate    Approval from examination committee required.				
6  numerical grade     Duration  Module level  Other prerequisites    1 semester  undergraduate  Approval from examination committee required.				
Duration      Module level      Other prerequisites        1 semester      undergraduate      Approval from examination committee required.				
1 semester  undergraduate  Approval from examination committee required.				
Contouto				
Current topics of Theoretical Physics. Accredited academic achievements, e.g. in case of change of university or study abroad.				
Intended learning outcomes				
The students have advanced competencies corresponding to the requirements of a module of Theoretical Phy- sics of the Bachelor's programme. They have advanced specialist knowledge of a subdiscipline of Theoretical Physics and have mastered the required methods. They are able to apply the acquired methods to current pro- blems of Theoretical Physics.				
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)				
V (3) + R (1)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)				
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English				
Allocation of places				
Additional information				
Workload				
180 h				
Teaching cycle				
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)				

Module	Module title Abbreviation				Abbreviation
Current	t Topics	s in Theoretical Physics			11-BXT8-152-m01
Module coordinator				Module offered by	
chairperson of examination committee Faculty of Physics and Astronomy				ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
8	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learı	ning outcomes			
The stu sics of t Physics blems o	The students have advanced competencies corresponding to the requirements of a module of Theoretical Phy- sics of the Bachelor's programme. They have advanced specialist knowledge of a subdiscipline of Theoretical Physics and have mastered the required methods. They are able to apply the acquired methods to current pro- blems of Theoretical Physics.				of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (4) +	R (2)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written or oral o pages) If a writ stead ta of asse nation Langua	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.				
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
240 h					
Teachir	ng cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module	Module title Abbreviation				
Selected Topics in Astrophysics					11-CSA6-152-m01
Module coordinator		Module offered by	Module offered by		
chairperson of examination committee			Faculty of Physics a	and Astronomy	
ECTS Method of grading Only after succ. compl. of module(s)					
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.
Conten	ts				
Selecte	ed topic	s of Astrophysics.			
Intende	ed lear	ning outcomes			
The stu tion me know tl	idents l ethods he appl	have basic knowledge of necessary to acquire this lication areas.	a current field of Astr knowledge. They are	ophysics and under able to classify the	stand the measuring and evalua- subject-specific contexts and
Course	<b>Courses</b> (type, number of weekly contact hours, language — if other than German)				
V (3) +	V (3) + R (1)				
Method module is	<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)				
written or oral pages) If a writ stead t of asse nation Langua	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.				
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
180 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module	Module title Abbreviation				
Selected Topics in Solid State Physics 11-CSF6-152-m01					11-CSF6-152-m01
Module coordinator				Module offered by	
chairpe	erson o	f examination committee		Faculty of Physics a	and Astronomy
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites	Other prerequisites	
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Selecte	ed topic	s of Solid-State Physics.			
Intend	ed lear	ning outcomes			
The stu and ev texts a	idents l aluatio nd knov	have basic knowledge of n methods necessary to a w the application areas.	a specialist field of S acquire this knowledg	olid-State Physics a ge. They are able to o	nd understand the measuring classify the subject-specific con-
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	V(3) + R(1)				
Metho module is	<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)				
written or oral pages) If a writ stead t of asse nation Langua	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.				
Allocat	ion of p	olaces			
Additio	onal inf	ormation			
Worklo	ad				
180 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	

Module	Module title Abbreviation					
Selected Topics in Particle Physics					11-CST6-152-m01	
Module coordinator				Module offered by		
chairperson of examination committee			Faculty of Physics a	ind Astronomy		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Selecte	ed topic	s of Particle Physics.				
Intende	ed lear	ning outcomes				
The stu theoret and kn	idents l tical me ow the	have basic knowledge of ethods necessary to acqu application areas.	a special field of Eler ire this knowledge. T	nentary Particle Phy hey are able to class	sics and of the experimental or sify the subject-specific contexts	
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)		
V(3) + R(1)						
Metho module is	<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written or oral pages) If a writ stead t of asse nation Langua	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocat	ion of p	olaces	_			
Additio	onal inf	ormation				
Worklo	ad					
180 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		

Module	e title				Abbreviation
Selected Topics in Theoretical Physics					11-CSTh6-152-m01
Module coordinator		Module offered by			
chairperson of examination committee		_	Faculty of Physics a	and Astronomy	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Selecte	d topic	s of Theoretical Physics.			
Intende	ed lear	ning outcomes			
The stu mather	dents natical	have basic knowledge of methods. They are able t	a special field of The to apply the acquired	oretical Physics and methods to current	have mastered the necessary problems of Theoretical Physics.
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
Methoo module is	<b>d of ass</b> creditab	<b>Sessment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
or oral pages) If a writ stead ta of asse nation Langua	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English				
Allocat	ion of <sub>l</sub>	olaces			
Additio	nal inf	ormation			
Worklo	ad				
180 h					
Teachi	ng cycl	e			
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	



## Summer Term 2025

(ECTS credits)

Module	Module title Abbreviation				
Current	Current Topics in Experimental Physics 11-BXE5-152-mo1				
Module coordinator				Module offered by	
chairperson of examination committee Faculty of Physics			Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.
Conten	ts				
Current or stud	t topics y abroa	of Experimental Physics. ad.	Accredited academi	c achievements, e.g.	. in case of change of university
Intende	ed leari	ning outcomes			
The stu sics of unders classify	The students have advanced competencies corresponding to the requirements of a module of Experimental Phy- sics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas				
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) +	R (2)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written or oral pages) If a writ stead t of asse nation Langua	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.				
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	

Module title Abbreviation				
opics in Experimental Physics	5		11-BXE6-152-m01	
coordinator		Module offered by		
chairperson of examination committee Faculty			ind Astronomy	
Aethod of grading	Only after succ. com	pl. of module(s)		
numerical grade				
Module level	Other prerequisites	Other prerequisites		
er undergraduate	Approval from exam	ination committee re	equired.	
;				
opics of Experimental Physics. abroad.	Accredited academi	c achievements, e.g.	. in case of change of university	
learning outcomes				
The students have advanced competencies corresponding to the requirements of a module of Experimental Phy- sics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas				
(type, number of weekly contact hours, l	anguage — if other than Ger	man)		
(1)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)				
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.				
n of places				
al information				
4				
ç cycle				
to in LPO I (examination regulations	s for teaching-degree progra	mmes)		
	opics in Experimental Physics      oordinator      on of examination committee      Nethod of grading      umerical grade      Module level      er      undergraduate      opics of Experimental Physics.      abroad.      learning outcomes      ents have advanced competer      e Bachelor's programme. They      nd the measuring and/or eval      ne subject-specific contexts a      type, number of weekly contact hours, I      (1)      of assessment (type, scope, langua      editable for bonus)      xamination (approx. 90 to 120      amination in groups (groups of presentation/talk (approx. 30      n examination was chosen as      e the form of an oral examina      ment is changed, the lecturer      te at the latest.      e of assessment: German and/or      al information      al information      to in LPO I (examination regulation)	opics in Experimental Physics      oordinator      on of examination committee      tethod of grading    Only after succ. commitmerical grade      imerical grade       Module level    Other prerequisites      er    undergraduate    Approval from exammination academination methods neces      tearning outcomes    ents have advanced competencies corresponding to a Bachelor's programme. They have knowledge of a Bachelor's programme. They have knowledge of a big academination methods neces      te subject-specific contexts and know the applicate type, number of weekly contact hours, language — if other than German, academination (approx. 90 to 120 minutes) or oral examination in groups (groups of 2, approx. 30 minute).      of assessment (type, scope, language — if other than German, academination in groups (groups of 2, approx. 30 minute).      on examination was chosen as method of assessme e the form of an oral examination of one candidate ment is changed, the lecturer must inform student te at the latest.      e of assessment: German and/or English      n of places      attinformation      to attine the total for the form of an oral examination of one candidate for assessment: German and/or English      n of places	Module offered by      Module offered by      on of examination committee      Faculty of Physics a      tethod of grading    Only after succ. compl. of module(s)      umerical grade       Module level    Other prerequisites      er    undergraduate    Approval from examination committee responses      optics of Experimental Physics. Accredited academic achievements, e.g.    abroad.      learning outcomes      ents have advanced competencies corresponding to the requirements of e Bachelor's programme. They have knowledge of a current subdiscipil and the measuring and/or evaluation methods necessary to acquire this ne subject-specific contexts and know the application areas.      type, number of weekly contact hours, language — if other than German)    [1)      of assessment (type, scope, language — if other than German, examination offered — if no editable for bonus)    amination (approx. 90 to 120 minutes).      camination (approx. 90 to 120 minutes).    or al examination of one can amination of one can amination was chosen as method of assessment, this may be chaa et the fatest.      e of assessment: German and/or English    in form students about this by four te at the latest.      e of assessment: German and/or English    in formation      it information    in Linformation regulati	

Module	Module title Abbreviation					
Current	Topics	s in Experimental Physics	5		11-BXE8-152-m01	
Module coordinator				Module offered by		
chairperson of examination committee				Faculty of Physics a	ind Astronomy	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
8	nume	rical grade				
Duratio	n	Module level	Other prerequisites	Other prerequisites		
1 semes	ster	undergraduate	Approval from exam	ination committee re	equired.	
Content	ts					
Current or study	topics / abroa	of Experimental Physics. Id.	Accredited academi	c achievements, e.g.	. in case of change of university	
Intende	d learr	ning outcomes				
The stue sics of t underst classify	The students have advanced competencies corresponding to the requirements of a module of Experimental Phy- sics of the Bachelor's programme. They have knowledge of a current subdiscipline of Experimental Physics and understand the measuring and/or evaluation methods necessary to acquire this knowledge. They are able to classify the subject-specific contexts and know the application areas					
Courses	<b>5</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (4) + F	R (2)					
<b>Method</b> module is	<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written or oral e pages) o If a writt stead ta of asses nation o Languag	written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocati	on of p	olaces				
Additio	nal info	ormation				
Workloa	ad					
240 h						
Teachin	ig cycl	e				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		

Current Topics in Theoretical Physics    11-BXT5-152-m01      Module coordinator    Module offered by      chairperson of examination committee    Faculty of Physics and Astronomy      ECTS    Method of grading    Only after succ. compl. of module(s)      5    numerical grade					
Module coordinator    Module offered by      chairperson of examination committee    Faculty of Physics and Astronomy      ECTS    Method of grading    Only after succ. compl. of module(s)      5    numerical grade					
chairperson of examination committee  Faculty of Physics and Astronomy    ECTS  Method of grading  Only after succ. compl. of module(s)    5  numerical grade					
ECTS  Method of grading  Only after succ. compl. of module(s)    5  numerical grade					
5 numerical grade					
Duration Module level Other prerequisites					
1 semester undergraduate Approval from examination committee required.					
Contents					
Current topics of Theoretical Physics. Accredited academic achievements, e.g. in case of change of university of study abroad.					
Intended learning outcomes					
The students have advanced competencies corresponding to the requirements of a module of Theoretical Phy- sics of the Bachelor's programme. They have advanced specialist knowledge of a subdiscipline of Theoretical Physics and have mastered the required methods. They are able to apply the acquired methods to current pro- blems of Theoretical Physics.					
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)					
V (2) + R (2)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocation of places					
Additional information					
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module title					Abbreviation
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Current Topics in Theoretical Physics					11-BXT6-152-m01
Module coordinator				Module offered by	
chairperson of examination committee				Faculty of Physics a	ind Astronomy
ECTS	CTS Method of grading Only after succ. compl. of module(s)				
6 numerical grade					
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from examination committee required.		
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learı	ning outcomes			
The stu sics of t Physics blems o	dents l the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t / have advanced spee d methods. They are	o the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (3) +	R (1)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocation of places					
Additional information					
Workload					
180 h					
Teaching cycle					
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					

Module title					Abbreviation
Current Topics in Theoretical Physics					11-BXT8-152-m01
Module coordinator				Module offered by	
chairperson of examination committee				Faculty of Physics a	ind Astronomy
ECTS	TS Method of grading Only after succ. compl. of module(s)				
8	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate	Approval from examination committee required.		
Conten	ts				
Current study a	topics broad.	of Theoretical Physics. A	ccredited academic a	achievements, e.g. ir	n case of change of university or
Intende	ed learı	ning outcomes			
The stu sics of t Physics blems o	dents l the Bac and h of Theo	nave advanced competer chelor's programme. They ave mastered the require retical Physics.	ncies corresponding t / have advanced spee d methods. They are	o the requirements of cialist knowledge of able to apply the ac	of a module of Theoretical Phy- a subdiscipline of Theoretical quired methods to current pro-
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (4) +	R (2)				
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.					
Allocation of places					
Additional information					
Workload					
240 h					
Teaching cycle					
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					

Module title					Abbreviation	
Selected Topics in Astrophysics					11-CSA6-152-m01	
Module coordinator				Module offered by		
chairperson of examination committee			Faculty of Physics a	and Astronomy		
ECTS	CTS Method of grading Only after succ. c		Only after succ. com	mpl. of module(s)		
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee r	equired.	
Conten	ts					
Selecte	ed topic	s of Astrophysics.				
Intende	ed lear	ning outcomes				
The stu tion me know tl	idents l ethods he appl	have basic knowledge of necessary to acquire this lication areas.	a current field of Astr knowledge. They are	ophysics and under able to classify the	stand the measuring and evalua- subject-specific contexts and	
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.						
Allocation of places						
Additional information						
Workload						
180 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					

Module title					Abbreviation	
Selected Topics in Solid State Physics					11-CSF6-152-m01	
Module coordinator				Module offered by		
chairperson of examination committee		<u>-</u>	Faculty of Physics a	nd Astronomy		
ECTS	Metho	od of grading	Only after succ. compl. of module(s)			
6	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Selecte	ed topic	s of Solid-State Physics.				
Intende	ed leari	ning outcomes				
The stu and eva texts ar	idents l aluation nd know	nave basic knowledge of n methods necessary to a w the application areas.	a specialist field of S acquire this knowleds	olid-State Physics a ge. They are able to c	nd understand the measuring classify the subject-specific con-	
Course	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.						
Allocat	ion of p	olaces				
Additional information						
Workload						
180 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					

Module title				Abbreviation		
Selected Topics in Particle Physics					11-CST6-152-m01	
Module coordinator				Module offered by		
chairperson of examination committee				Faculty of Physics and Astronomy		
ECTS	TS Method of grading Only after succ. co			npl. of module(s)		
6	nume	rical grade				
Duration Module level		Other prerequisites				
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Selecte	ed topic	s of Particle Physics.				
Intend	ed lear	ning outcomes				
The stu theoret and kn	idents l tical me ow the	have basic knowledge of ethods necessary to acqu application areas.	a special field of Eler ire this knowledge. T	nentary Particle Phys hey are able to class	sics and of the experimental or sify the subject-specific contexts	
Course	<b>S</b> (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)		
V (3) +	R (1)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.						
Allocation of places						
Additional information						
Workload						
180 h						
Teaching cycle						
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						

Module title					Abbreviation	
Selected Topics in Theoretical Physics					11-CSTh6-152-m01	
Module coordinator				Module offered by		
chairperson of examination committee				Faculty of Physics and Astronomy		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
6	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate	Approval from exam	ination committee re	equired.	
Conten	ts					
Selecte	d topic	s of Theoretical Physics.				
Intende	ed lear	ning outcomes				
The stu mather	dents natical	have basic knowledge of methods. They are able t	a special field of The to apply the acquired	oretical Physics and methods to current	have mastered the necessary problems of Theoretical Physics.	
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	rman)		
V (3) +	R (1)					
Methoo module is	<b>d of ass</b> creditab	<b>sessment</b> (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether	
written examination (approx. 90 to 120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.						
Allocat	ion of <sub>l</sub>	olaces				
Additional information						
Workload						
180 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Referred to in LPO I (examination regulations for teaching-degree programmes)						