

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Physics International as a Master's with 1 major with the degree "Master of Science" (120 ECTS credits)

Responsible: Faculty of Physics and Astronomy

Abbreviations used: Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **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 for the Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-

modules in this SFB: ditable for bonus.

Information on assessment procedures: 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 a 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.

Examination regulations version: 2026

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

ASP02015

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

??-???-2026 (2026-??)

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.

Every module will be described using the following form:

Abbreviation	Module title									
	ECTS		Duration	(in semesters)	Method of grading		Module level			
	Courses		To be sp	To be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y						
	Method of as	sessm	ent							
	Only after su completion o		ıl if applic	able						
	Other prereq	uisites	if applic	if applicable						
	Participants on of places		ocati- if applic	able						
	Additional in	format	ion if applic	if applicable						
	Referred to in	1 LPO I	if applic	able (examination re	gulations for teachin	g-degree programmes)				

Compulsory Electiv	es (60 ECTS cre	dits)									
Subfield Physics (n	nin. 55 ECTS cre	dits)									
Advanced Laborato	ory Courses (min	. 9 ECTS	credits)							
11-P-FM1-Int-201-	Advanced Labo	ratory Co	ourse N	urse Master Part 1							
mo1	ECTS 3	Duratio		1 semester	Method of grading	(not) successfully compl	leted Modul level	graduate			
	Courses		P (3) Modu	le taught in: English	l						
	Method of asse	essment	Stude an ex perim modu	practical examination Students must successfully prepare, perform, document (lab notebook) and evaluate (in the form of a scientific publication) an experiment to be considered to have successfully completed this experiment. Students must successfully complete two experiments to be considered to have successfully completed this module. Detailed regulations are laid down in the respective module description. Language of assessment: English							
	other prerequis	1		Preparation and safety briefing.							
11-P-FM2-Int-201-				irse Master Part 2							
mo1	ECTS 3 Duration			1 semester	Method of grading	(not) successfully compl	leted Modul level	graduate			
	Courses		P (3) Modu	le taught in: English	l						
	Method of assessment		practical examination Students must successfully prepare, perform, document (lab notebook) and evaluate (in the form of a scientific publication) an experiment to be considered to have successfully completed this experiment. Students must successfully complete two experiments to be considered to have successfully completed this module. Detailed regulations are laid down in the respective module description. Language of assessment: English								
	other prerequis	sites	Prepa	Preparation and safety briefing.							
11-P-FM3-Int-201-	Advanced Labo	ratory Co	ourse N	Naster Part 3							
mo1	ECTS 3	Duratio		1 semester	Method of grading	(not) successfully compl	leted Modul level	graduate			
	Courses		P (3) Modu	le taught in: English	1						
	Method of assessment		Students must successfully prepare, perform, document (lab notebook) and evaluate (in the form of a scientific publication) an experiment to be considered to have successfully completed this experiment. Students must successfully complete two experiments to be considered to have successfully completed this module. Detailed regulations are laid down in the respective module description. Language of assessment: English								
	other prerequis	sites	Prepa	ration and safety br	iefing.		,				

11-P-FM4-Int-201-	Advand	ced Lab	oratory Co	urse N	Master Part 4							
mo1	ECTS	3	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	es		P (3) Modu	le taught in: English	h						
	Method	d of ass	essment	Stude an experim modu	ractical examination tudents must successfully prepare, perform, document (lab notebook) and evaluate (in the form of a scientific publication) n experiment to be considered to have successfully completed this experiment. Students must successfully complete two exeriments to be considered to have successfully completed this module. Detailed regulations are laid down in the respective nodule description. anguage of assessment: English							
		rerequi		Prepa	Preparation and safety briefing.							
Advanced Seminar												
11-OSP-A-Int-201-		ced Sen	inar Phys			_						
mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course				le taught in: English							
	Metho	d of ass	essment		talk with discussion (30 to 45 minutes) Language of assessment: English							
11-0SP-B-Int-201-		ced Sen	inar Phys	ics B		_						
mo1	ECTS 5 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate			
		Courses			S (2) Module taught in: English							
	Metho	d of ass	essment	talk with discussion (30 to 45 minutes) Language of assessment: English								
Experimental Phys	ics (min	. 10 ECT	S credits)									
11-BSV-Int-201-	Image	and Sig	nal Proce	ssing i	n Physics							
mo1	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es			V (2) + Ü (2) Module taught in: English							
	Method	d of ass		b) ora c) ora d) pro e) pre If a wi form of the le Langu	l examination of on l examination in grouple of the proving sentation/talk (approximation value) and or all examination of an oral examination of an oral examination of an oral examination of an oral examination of assessment	. 8 to 10 pages) or prox. 30 minutes). was chosen as metho ion of one candidate of students about this because its students.	prox. 30 minutes) or prox. 30 minutes per candidate do of assessment, this may be c	hanged and as groups. If the m al examination				

11-OHL-Int-201-	Organic Semiconductors											
mo1	ECTS	6	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S			+ R (1) ule taught in: Engli	sh						
				b) ora c) ora d) pro e) pro If a w form the le Langu Asses	al examination of cal examination in goject report (approsesentation/talk (apritten examination of an oral examination otars are turer must infornuage of assessment offered: In	(approx. 90 to 120 minutes) or one candidate each (approx. 30 minutes) or groups (groups of 2, approx. 30 minutes per candid x. 8 to 10 pages) or oprox. 30 minutes) a was chosen as method of assessment, this may be ation of one candidate each or an oral examination in students about this by four weeks prior to the orat: English the semester in which the course is offered and in	be changed and as: n in groups. If the m iginal examination	ethod of assessment is changed, date at the latest.				
11-PMM-Int-201- m01	Physic		anced Ma	aterial	s							
	ECTS 6 Duration			n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S			V (3) + R (1) Module taught in: English							
	Method of assessment			b) ora c) ora d) pro e) pro If a w form the lo Lango	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead talform of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is c the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
11-SPI-Int-201-m01												
	ECTS	6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course			V (3) + R (1) Module taught in: English								
	Method	d of ass	essment	b) ora c) ora d) pro e) pro If a w form the lo Lange	al examination of cal examination in goject report (approsesentation/talk (apritten examination of an oral examination dage of assessmer	(approx. 90 to 120 minutes) or one candidate each (approx. 30 minutes) or groups (groups of 2, approx. 30 minutes per candid x. 8 to 10 pages) or opprox. 30 minutes). It was chosen as method of assessment, this may be ation of one candidate each or an oral examination in students about this by four weeks prior to the orat: English the semester in which the course is offered and in	be changed and ass n in groups. If the m iginal examination	nethod of assessment is changed, date at the latest.				

11-FK2-Int-201-m01	Solid S	tate Ph	ysics 2				,			
	ECTS	8	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S		V (4) + R (2) Module taught in: English						
	Method	d of ass		a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						
	other p	rerequi	sites	Approv	val from examinati	on committee required.				
11-NLS-Int-252-	Nano-Optics and Hybrid Light-Matter Systems									
mo1	ECTS 8 Duratio			1	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S		V (4) + Modul	R (2) e taught in: Englisl	h				
	Method of assessment			b) oral c) oral d) proj e) pres If a wri form o the lec	examination of on examination in gro ject report (approxi- sentation/talk (app itten examination v f an oral examinati cturer must inform age of assessment		e changed and ass in groups. If the m inal examination	nethod of assessment is changed, date at the latest.		

11-FKS-Int-201-m01	Solid S	tate Sp	ectroscop	y							
	ECTS	6	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S			V (3) + R (1) Module taught in: English						
	Method	d of ass	essment	b) ora c) ora d) pro e) pro If a w form the le Lange	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). a written examination was chosen as method of assessment, this may be changed and assessment may instead take the orm of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, ne lecturer must inform students about this by four weeks prior to the original examination date at the latest. anguage of assessment: English ssessment offered: In the semester in which the course is offered and in the subsequent semester						
11-MAG-Int-201-	Magne	tism					'				
mo1	ECTS	6	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S	`		+ R (1) ıle taught in: Engli	sh	,				
	Method of assessment			b) ora c) ora d) pro e) pro If a w form the le Lange	al examination of call examination in go bject report (appro- esentation/talk (ap ritten examination of an oral examina ecturer must inform age of assessmer	(approx. 90 to 120 minutes) or one candidate each (approx. 30 minutes) or roups (groups of 2, approx. 30 minutes per candidate to 10 pages) or oprox. 30 minutes). was chosen as method of assessment, this may be tion of one candidate each or an oral examination a students about this by four weeks prior to the oracter. English the semester in which the course is offered and in	pe changed and as n in groups. If the miginal examination	ethod of assessment is changed, date at the latest.			
11-HNS-Int-201-					ductor Nanostruct						
mo1	ECTS	6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate			
	Method Method		essment	a) wri b) ora c) ora d) pro e) pro If a w form the le Lange	al examination of call examination in gode of the cape of an oral examination of assessmer	approx. 90 to 120 minutes) or one candidate each (approx. 30 minutes) or roups (groups of 2, approx. 30 minutes per candid x. 8 to 10 pages) or oprox. 30 minutes). was chosen as method of assessment, this may be tion of one candidate each or an oral examination a students about this by four weeks prior to the original candidate.	pe changed and as n in groups. If the miginal examination	ethod of assessment is changed, date at the latest.			

11-HPH-Int-201-	Semicondu	ctor Physics	;							
mo1	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses	·		V (3) + R (1) Module taught in: English						
	Method of a	ssessment	b) ora c) ora d) pro e) pre If a wi form of the le Langu	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). a written examination was chosen as method of assessment, this may be changed and assessment may instead take the orm of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, he lecturer must inform students about this by four weeks prior to the original examination date at the latest. Sanguage of assessment: English ssessment offered: In the semester in which the course is offered and in the subsequent semester						
11-QTR-Int-201-	Quantum Tr	ansport								
mo1	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses		V (3) - Modu	+ R (1) le taught in: Engli	ish					
	Method of a	issessifient	b) ora c) ora d) pro e) pre If a wi form of the le Langu	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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 chanthe lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						
11-QIC-Int-201-m01	Advanced T	heory of Qu			uantum Information					
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			V (3) + R (1) Module taught in: English						
	Method of a	issessment	b) ora c) ora d) pro e) pre If a wi form o the le Langu	Il examination of on the lexamination in going the less of the les	(approx. 90 to 120 minutes) or one candidate each (approx. 30 minutes) or groups (groups of 2, approx. 30 minutes per candidax. 8 to 10 pages) or opprox. 30 minutes). It was chosen as method of assessment, this may ation of one candidate each or an oral examination students about this by four weeks prior to the orat: English the semester in which the course is offered and in	be changed and as n in groups. If the m riginal examination	nethod of assessment is changed, date at the latest.			

11-FLV-Int-262-	Advance	d Lithography T	echniques						
mo1	ECTS 6			Method of grading	numerical grade	Modul level			
	Courses		V (3) + R (1) Module taught in: English	sh					
	Method o		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) a written examination was chosen as method of assessment, this may be changed and assessment may instead take the rm of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, electurer must inform students about this by four weeks prior to the original examination date at the latest. In the semester in which the course is offered and in the subsequent semester						
11-NOP-Int-201-	Nano-Op	tics							
mo1	ECTS 6	6 Duration	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (3) + R (1) Module taught in: Englis	sh					
			a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						
11-PTS-Int-201-	Phenome	enology and Th	eory of Superconductivit	у		,			
mo1	ECTS 6			Method of grading	numerical grade	Modul level	graduate		
	Courses		V (3) + R (1) Module taught in: English						
	Method o		d) project report (appro- e) presentation/talk (ap If a written examination form of an oral examina the lecturer must inform Language of assessmer	ne candidate each (ap roups (groups of 2, ap x. 8 to 10 pages) or prox. 30 minutes). was chosen as metho tion of one candidate a students about this b at: English	oprox. 30 minutes) or prox. 30 minutes per can do of assessment, this ma	ay be changed and ass ion in groups. If the mo original examination o			

08-PCM4-161-m01	Ultrafast sp	Ultrafast spectroscopy and quantum-control											
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses		S (2) + Ü (1) Module taught in: German or English										
	Method of a	assessment	b) ora c) tall	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English									
	other prere	quisites	Prior completion of modules o8-PCM1a and o8-PCM1b recommended.										
11-CSFM-Int-201-	Advanced T	opics in Soli	d Stat	e Physics			,						
mo1	ECTS 6	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	·		+ R (1) lle taught in: English									
			a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English										
	other prere	<u> </u>	Approval from examination committee required.										
11-ASM-Int-201-			onal Astronomy										
mo1	ECTS 6	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			+ R (1) ıle taught in: English	1								
	Method of a	assessment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester										

11-TPE-Int-201-m01	Experim	ental Pa	rticle Ph	ysics						
	ECTS	6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses			V (3) + R (1) Module taught in: English						
	Method			b) ora c) ora d) pro e) pre If a wr form o the le Langu Asses	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). a written examination was chosen as method of assessment, this may be changed and assessment may instead take the orm of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, ne lecturer must inform students about this by four weeks prior to the original examination date at the latest. anguage of assessment: English ssessment offered: In the semester in which the course is offered and in the subsequent semester					
11-ASP-Int-201-	Introduc	tion to	Space Ph	nysics						
mo1	ECTS	6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses				V (3) + R (1) Module taught in: English					
	Method			a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead ta form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is of the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						
11-MAS-Int-201- mo1			th Astror							
mor	ECTS Courses			1 semester Method of grading numerical grade Modul level graduate V (3) + R (1) Module taught in: English						
	Method	of asses	ssment	a) writ b) ora c) ora d) pro e) pre If a wr form o the le Langu	tten examination (l examination of o l examination in g ject report (appro: sentation/talk (ap ritten examination of an oral examina cturer must inform	(approx. 90 to 120 minutes) or one candidate each (approx. 30 minutes) or roups (groups of 2, approx. 30 minutes per candix. 8 to 10 pages) or oprox. 30 minutes) was chosen as method of assessment, this may tion of one candidate each or an oral examination students about this by four weeks prior to the or	be changed and ass n in groups. If the m riginal examination	ethod of assessment is changed, date at the latest.		

11-CSAM-Int-201-	Advanced Topics in Astrophysics										
mo1	ECTS	6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses	5		V (3) + Modu	F R (1) le taught in: English	1					
	Method	l of ass		b) ora c) ora d) pro e) pre If a wr form of the le	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). a written examination was chosen as method of assessment, this may be changed and assessment may instead take the orm of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, he lecturer must inform students about this by four weeks prior to the original examination date at the latest.						
	other pi	rerequi	sites	Appro	val from examination	on committee required.					
11-MRI-Int-201-	Advanc	ed Mag	netic Res	onanc	e Imaging		1				
mo1	ECTS	6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses	5		V (3) + Modu	F R (1) le taught in: English	1					
				c) ora d) pro e) pre If a wr form of the le Langu							
11-SSC-Int-201-	Surface		,								
mo1		6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			V (3) + R (1) Module taught in: English							
	Method	l of ass		b) ora c) ora d) pro e) pre If a wr form of the le Langu	l examination of on l examination in grouple of the proof	orox. 30 minutes). vas chosen as method of assessment, this may on of one candidate each or an oral examinatio students about this by four weeks prior to the or	be changed and ass n in groups. If the m riginal examination o	ethod of assessment is changed, date at the latest.			

11-BIC-Int-201-m01	Basic I	maging	Concepts	i							
	ECTS	6	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	!S	•		V (3) + R (1) Module taught in: English						
	Method	d of ass	essment	b) ora c) ora d) pro e) pro If a w form the le Lange	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). a written examination was chosen as method of assessment, this may be changed and assessment may instead take the rm 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. In guage of assessment: English seessment offered: In the semester in which the course is offered and in the subsequent semester						
11-CAP-Int-201-	Conten	nporary	Astrophy	sics			'				
mo1	ECTS	6	Duration	ı	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	!S			V (3) + R (1) Module taught in: German or English						
	Method of assessment			a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
11-AAI-Int-201-m01					1						
	ECTS	6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	!S		V (3) + R (1) Module taught in: German or English							
	Method	d of ass	essment	b) ora c) ora d) pro e) pro If a w form the le Lange	al examination of only examination in going the second of the second of the second of the second of an oral examination of assessment of as	(approx. 90 to 120 minutes) or one candidate each (approx. 30 minutes) or groups (groups of 2, approx. 30 minutes per candid x. 8 to 10 pages) or opprox. 30 minutes). It was chosen as method of assessment, this may lation of one candidate each or an oral examination in students about this by four weeks prior to the orat: English the semester in which the course is offered and in	be changed and ass in groups. If the m iginal examination	ethod of assessment is changed, date at the latest.			

11-CTA-Int-201-	Advanced Co	mputer Ton	nography						
mo1	ECTS 6	Duration	n 1 sem	ester	Method of grading numerical grade	Modul level	graduate		
	Courses		V (3) + R (1) Module taug	ht in: Englis	sh				
	Method of as	sessment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						
11-EIM-Int-201-	Electron and	Ion Micros	сору						
mo1	ECTS 6	Duration	n 1 sem	ester	Method of grading numerical grade	Modul level	graduate		
	Courses	·	V (3) + R (1) Module taug	ht in: Englis	sh				
	Method of as		form of an or	essessment may instead take the method of assessment is changed, a date at the latest.					
11-SPT-Int-201-	Scanning Pro	be Techno	logies						
mo1	ECTS 6	Duration	1 sem	ester	Method of grading numerical grade	Modul level	graduate		
	Courses		V (3) + R (1) Module taught in: English						
	Method of as	sessment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						

11-FPA-Int-201-m01	Visiting	g Resea	ırch								
	ECTS	10	Duratio	n		Method of grading	numerical grade	Modul level	graduate		
	Course	S		R (o) Modu	le taught in: English			•			
	Method	d of ass	essment		ct report (approx. 10 lage of assessment:						
	other p	rerequi	isites	Approval from examination committee required.							
11-EXE5-Int-201-	Curren	t Topics	s in Experi	menta	l Physics						
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	Courses			+ R (2) le taught in: English						
				b) ora c) ora d) pro e) pre If a wi form o the le Langu	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English						
		rerequi		Approval from examination committee required.							
11-EXE6-Int-201-				imental Physics							
mo1	ECTS	6	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (3) - Modu	+ R (1) le taught in: English						
			essment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English							
	other p	rerequi	sites	Appro	val from examinatio	n committee require	d.				

11-EXE7-Int-201-	Current To	opics in Experi	imental Physics	,			-		
mo1	ECTS 7	Duratio	n 1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (3) + R (1) Module taught in: Engli	sh					
	Method o	fassessment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English						
	other prer	requisites	Approval from examina	tion committee require	ed.				
11-EXE8-Int-201-	Current To	opics in Experi	imental Physics						
mo1	ECTS 8	Duratio	n 1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (4) + R (2) Module taught in: Engli	sh					
			c) oral examination in g d) project report (appro e) presentation/talk (appropriate in a written examination form of an oral examination the lecturer must inforr Language of assessme	b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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 chang the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English					
	other prer	requisites	Approval from examination committee required.						
11-EXE6A-Int-201-			imental Physics						
mo1	ECTS 6 Courses	Duratio	n 1 semester Method of grading numerical grade Modul level graduate V(3) + R(1) Module taught in: English						
		fassessment	b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English						
	other prer	requisites	Approval from examina	tion committee require	ed.				
Master's with 1 major Ph	ysics Internation	nal (2026)			JMU Würzburg • generated	d 25-Nov-2025 • exam. reg. data	record 88 j44 - - H 2026 page 16 / 40		

11-EXP6-Int-201-	Current Topi	cs in Physic								
mo1	ECTS 6	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses	·		V (3) + R (1) Module taught in: English						
	Method of as	ssessment	b) ora c) ora d) pro e) pre If a wr form o the le	l examination of o l examination in g ject report (approx sentation/talk (ap ritten examination of an oral examina	approx. 90 to 120 minutes) or ne candidate each (approx. 30 minutes) or roups (groups of 2, approx. 30 minutes per car x. 8 to 10 pages) or prox. 30 minutes). was chosen as method of assessment, this m tion of one candidate each or an oral examina students about this by four weeks prior to the it: English	ay be changed and ass	ethod of assessment is changed,			
	other prereq	uisites	Appro	val from examinat	ion committee required.					
Theoretical Physics	s (min. 10 ECT	S credits)								
11-QM2-Int-201-	Quantum Me	chanics II	l .							
mo1	ECTS 8	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V (4) + R (2) Module taught in: English							
	b c) d e If fo th			a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						

11-TQO-Int-221-	Theore	tical Q	uantum Op	otics			'				
mo1	ECTS	8	Duration	n	1 semester	Method of grading numerical grade		Modul level	graduate		
	Course	S			+ R (2) ıle taught in: Englis	sh	,				
	Method	d of ass	essment	b) ora c) ora d) pro e) pro If a w form the lo Lang	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						
11-RTT-Int-201-m01	Theory	of Rela	tivity				'	•			
		6	Duration	<u> </u>	1 semester	Method of grading numerical grade		Modul level	graduate		
	Course	S	•		+ R (1) ıle taught in: Englis	sh					
	Method	1 OI ass		b) ora c) ora d) pro e) pro If a w form the lo Lang	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may form of an oral examination of one candidate each or an oral examination in groups. If the method of asse the lecturer must inform students about this by four weeks prior to the original examination date at the lat Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						
11-RMFT-Int-201-	Renorm	nalizati	on Group	Metho	ds in Field Theory		ı	•			
mo1	ECTS	8	Duration	1	1 semester	Method of grading numerical grade		Modul level	graduate		
	Course	S		V (4) + R (2) Module taught in: English							
	Method	d of ass	essment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: Once a year as announced							

11-PKS-Int-201-	Physics of	Complex Sys	tems							
mo1	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			+ R (2) µle taught in: Englis	h					
	Method of	assessment	b) ora c) ora d) pro e) pro If a w form the lo Lang	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester						
11-QIC-Int-201-m01	Advanced	Theory of Qua	antum	Computing and Qu	antum Information					
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses	,		+ R (1) ule taught in: Englis	h		•			
	Method of	assessment	b) ora c) ora d) pro e) pro If a w form the lo Lang							
11-TFK-Int-201-m01	Theoretica	l Solid State	Physic	:S		•				
	ECTS 8	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses		V (4) + R (2) Module taught in: English							
	Method of	assessment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester							

11-TFK2-Int-201-	Theore	tical So	lid State F	Physics 2								
mo1	ECTS	8	Duration	1 semes	ter	Method of grading numerical grade	Modul level	graduate				
	Course	S.		V (4) + R (2) Module taught	in: Englis	sh						
	Method	d of ass		b) oral examina c) oral examina d) project repore e) presentation If a written examination of an oral the lecturer mulanguage of as	a) written examination (approx. 90 to 120 minutes) or c) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes). f 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
11-TEFK-Int-201-	Topolo	gical Ef	fects in So	lid State Physic	cs							
mo1	ECTS	8	Duration	1 semes	ter	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (4) + R (2) Module taught								
	Method of assessment			form of an oral	sessment may instead take the nethod of assessment is changed, date at the latest. emester							
11-FFK-Int-201-m01	Field T	heory in										
	ECTS	8	Duration	1 semes	ter	Method of grading numerical grade	Modul level	graduate				
	Course	·S		V (4) + R (2) Module taught in: English								
	Metho	d of ass		a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester								

11-AKTF-Int-201-	Selected	d Topics	of Theor	etical Solid Stat	e Physic	s	, -					
mo1	ECTS	6	Duration	1 semest	er	Method of grading numerical grade	Modul level	graduate				
	Courses			V (3) + R (1)			,					
				Module taught i								
	Method	of asses		a) written exam	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) 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). f a written examination was chosen as method of assessment, this may be changed and assessment may instead take the								
						ion of one candidate each or an oral examinatio						
				the lecturer mus	st inform	students about this by four weeks prior to the o						
				Language of ass			in the cubsequent so	amastar				
11-CMS-Int-201-	Comput	Assessment offered: In the semester in which the course is offered and in the subsequent semester Computational Materials Science (DFT)										
mo1			Duration		ρr	Method of grading numerical grade	Modul level	graduate				
	Courses			V (4) + R (2)	<u> </u>	Method of glading humerical glade	Modulitevel	graduate				
	Courses			Nodule taught in: English								
	Method of assessment			a) written examination (approx. 90 to 120 minutes) or								
				o) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or								
				d) project report (approx. 8 to 10 pages) or								
				e) 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: English								
				Assessment offered: In the semester in which the course is offered and in the subsequent semester								
11-KFT-Int-201-m01		al Field	Theory									
	ECTS	6	Duration		er	Method of grading numerical grade	Modul level	graduate				
	Courses			V (3) + R (1)								
	24 (1 1			Module taught i			1					
	Method	of asses	ssment	a) written exam	ination (a	approx. 90 to 120 minutes) or ne candidate each (approx. 30 minutes) or						
						oups (groups of 2, approx. 30 minutes) of	idate) or					
				d) project repor	t (approx	. 8 to 10 pages) or	•					
				e) presentation,	talk (app	prox. 30 minutes).	ha changed and acc	secoment may instead take the				
				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 ass			to also a subs					
				Assessment off	erea: In t	he semester in which the course is offered and i	in the subsequent se	emester				

11-KFT2-Int-201-	Conforma	l Field Theory	2								
mo1	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (3) - Modu	+ R (1) le taught in: English							
	Method o	f assessment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester								
11-GRTM-Int-201-	Group Theory										
mo1	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (3) + R (1) Module taught in: English								
	Method o	f assessment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester								
	other prer	requisites	Appro	val from examinatio	n committee require	d.					

11-CRP-Int-201-	Renorma	lization Group	and Critical Phenomen	a							
mo1	ECTS 6	Duratio	n 1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		V (3) + R (1)		•						
			Module taught in: English								
	Method o	of assessment	a) written examination (approx. 90 to 120 minutes) or								
			b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or								
			d) project report (approx. 8 to 10 pages) or								
			e) presentation/talk (approx. 30 minutes).								
				on was chosen as method of assessment, this may nation of one candidate each or an oral examination							
				m students about this by four weeks prior to the o							
			Language of assessme	ent: English							
		_		n the semester in which the course is offered and	in the subsequent se	emester					
11-BWW-Int-201-			actions in One Dimension								
mo1	ECTS 6	Duratio		Method of grading numerical grade	Modul level	graduate					
	Courses		V (3) + R (1) Module taught in: Eng	(3) + R (1) Module taught in: English							
	Method o	of assessment		n (approx. 90 to 120 minutes) or fone candidate each (approx. 30 minutes) or							
				c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or							
			d) project report (appr	d) project report (approx. 8 to 10 pages) or							
			e) 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: English								
2001			Assessment offered: In the semester in which the course is offered and in the subsequent semester								
11-GGD-Int-201- mo1			Gravity Duality	Taget to the terminal transfer of the terminal	[A	1					
mor	ECTS 8	Duratio		Method of grading numerical grade	Modul level	graduate					
	Courses		V (4) + R (2) Module taught in: English								
	Method o	of assessment	a) written examination	(approx. 90 to 120 minutes) or							
				one candidate each (approx. 30 minutes) or groups (groups of 2, approx. 30 minutes per cand	lidata) or						
			d) project report (appr		ildate) of						
			e) presentation/talk (a	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 assessme		niginal examination	uate at the latest.					
				n the semester in which the course is offered and	in the subsequent se	emester					

11-AKM-Int-201-	Cosmology	'				'				
mo1	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses		V (3)		- h					
	Method of as	cocomont		lle taught in: Engli						
	Method of as	ssessment	a) wri	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or						
			c) ora	c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes).						
			d) pro							
			e) pre	esentation/talk (ap ritten examination	oprox. 30 minutes). was chosen as method of assessment, this may be	e changed and as	sessment may instead take the			
			form	of an oral examina	tion of one candidate each or an oral examination	in groups. If the m	ethod of assessment is changed,			
					n students about this by four weeks prior to the orig	ginal examination	date at the latest.			
				lage of assessmer	nt: English the semester in which the course is offered and in	the subsequent s	amastar			
11-AST-Int-201-	Theoretical A	stronhysic		sament oncica. III	the semester in which the course is offered and in	the subsequent so	- Intester			
mo1	ECTS 6	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses	1		+ R (2)			3			
				ıle taught in: Engli:	sh					
	Method of as	sessment	a) wri	a) written examination (approx. 90 to 120 minutes) or						
				b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or						
			d) pro	d) project report (approx. 8 to 10 pages) or						
			e) pre	e) 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: English						
				Assessment offered: In the semester in which the course is offered and in the subsequent semester						
11-EPP-Int-201-	Introduction		<u> </u>	S						
mo1	ECTS 6	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			+ R (2)	-L					
	Mathadafa			Module taught in: English a) written examination (approx. 90 to 120 minutes) or						
	Method of as	ssessment			ne candidate each (approx. 30 minutes) or					
					roups (groups of 2, approx. 30 minutes per candida	ate) or				
					x. 8 to 10 pages) or					
					oprox. 30 minutes).	a changed and as	sassment may instead take the			
				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 le	cturer must inform	n students about this by four weeks prior to the orig					
				uage of assessmer		the cube	am actor			
			Asses	Silient offered: In	the semester in which the course is offered and in	ine subsequent so	emester			

11-APL-Int-201-	High-En	nergy As	strophysi	cs							
mo1	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	5			V (3) + R (1) Module taught in: English						
	Method	of asse		a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
11-NMA-Int-201-	Comput	tational	Astrophy	sics							
mo1	ECTS 6 Duration		Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V (3) + R (1) Module taught in: English							
	Method of assessment			b) ora c) ora d) pro e) pre If a wr form o the le Langu	I examination of one lexamination in gro ject report (approx. sentation/talk (appritten examination wof an oral examinatioturer must inform stage of assessment:	e candidate each (ap ups (groups of 2, app 8 to 10 pages) or rox. 30 minutes). vas chosen as metho on of one candidate of students about this b English	prox. 30 minutes) or prox. 30 minutes per candidate do of assessment, this may be c	hanged and ass groups. If the m al examination (

11-QFT1-Int-201-	Quantum Field Theory I											
mo1	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	·		V (4) + R (2) Module taught in: English							
	Method	l of ass	essment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester								
	other prerequisites			Appro	oval from examinat	ion committee require	ed.					
11-QFT2-Int-201-	Quantu	m Field	Theory II					,				
mo1	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (4) + R (2) Module taught in: English								
	Method of assessment			a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester								

11-TEP-Int-201-m01	Theoretical Elementary Particle Physics												
	ECTS	8	Duration	1 semester	Method of grading numerical grade	Modul level	graduate						
	Course	S		V (4) + R (2) Module taught in: Eng	glish								
	Method	d of asso		a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester									
11-ATTP-Int-201-	Selecte	d Topic	s of Theor	retical Elementary Par	ticle Physics								
mo1	ECTS	6	Duration	1 semester	Method of grading numerical grade	Modul level	graduate						
	Course	S		V (3) + R (1) Module taught in: English									
				a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester									
11-BSM-Int-201-				idard Model of Elemer									
mo1	ECTS	6	Duration		Method of grading numerical grade	Modul level	graduate						
	Course			V (3) + R (1) Module taught in: English									
	Method	d of asse		a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester									

11-STRG1-Int-201-	String Theory 1												
mo1	ECTS	8	Duratio	n	1 semester	Method of grading numerical grade	N	Modul level	graduate				
	Course	S			+ R (2)								
	NA - 41			Module taught in: English									
	Method	or ass	sessment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or									
				c) ora	c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or								
				d) pro	d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes).								
						was chosen as method of assessment, th	is may be cha	nged and as	sessment may instead take the				
				form	of an oral examina	tion of one candidate each or an oral exan	mination in gro	oups. If the m	ethod of assessment is changed,				
						students about this by four weeks prior to	o the original o	examination	date at the latest.				
					uage of assessmen	t: English the semester in which the course is offere	d and in the si	ubsequent se	emester				
11-STRG2-Int-201-	String '	Theory	2	7.000				<u></u>					
mo1		6	Duration	<u> </u>	1 semester	Method of grading numerical grade	N	Modul level	graduate				
	Course	S			+ R (1)								
					Module taught in: English								
	Method	d of ass	sessment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or									
					c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or								
				d) pro	d) project report (approx. 8 to 10 pages) or								
				e) 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 le	the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester								
11-RAI-Int-211-m01	Padio A	Strono	mical Inte			the semester in which the course is offere	d and in the Si	ubsequent se	emester				
11-KAI-III(-211-III01		6	Duration		1 semester	Method of grading numerical grade	1	Modul level	graduate				
	Course		Daration			method of glading humereat glade		viodut tevet	graduite				
	Course	3		V (3) + R (1) Module taught in: English									
	Method	of ass	essment			approx. 90 to 120 minutes) or							
						ne candidate each (approx. 30 minutes) o							
					c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or								
				e) presentation/talk (approx. 30 minutes).									
				If a written examination was chosen as method of assessment, this may be changed and assessment may instead									
				form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is the lecturer must inform students about this by four weeks prior to the original examination date at the latest.									
					uage of assessmen		o the original	CAGIIIIIatiOII	dute at the tatest.				
				Asses	ssment offered: In	the semester in which the course is offere	d and in the s	ubsequent se	emester				

11-SLQ-Int-241-	Black I	loles										
mo1	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			V (3) + R (1) Module taught in: English							
	Method	d of ass	essment	b) ora c) ora d) pro e) pre If a wi form of the le Langu	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
11-TPSM-Int-211-	Particl	e Physic	s (Standa	ard Mo								
mo1	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (4) + R (2) Module taught in: English								
	Metho	d of ass	essment	b) ora c) ora d) pro e) pre If a wi form of the le Langu	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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 change the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester							
	other p	rerequi	sites	Appro	oval from examina	tion committee require	d.					
11-FPA-Int-201-m01		g Resea										
	ECTS 10 Duratio					Method of grading	numerical grade	Modul level	graduate			
	Courses			R (o) Module taught in: English								
				project report (approx. 10 to 20 pages) Language of assessment: English								
				Approval from examination committee required.								

11-EXT5-Int-201-	Current Topics of Theoretical Physics											
mo1	ECTS 5	Duration	1 semester	Method of grading numerical grade	Modul level	graduate						
	Courses		V (2) + R (2) Module taught in: Englis	sh								
			a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English									
	other prerequi		Approval from examinat	ion committee required.								
11-EXT6-Int-201-	Current Topics											
mo1	ECTS 6	Duration		Method of grading numerical grade	Modul level	graduate						
	Courses		V (3) + R (1) Module taught in: Englis	sh								
			a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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 change the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: English									
	other prerequi		Approval from examination committee required.									
11-EXT7-Int-201-	Current Topics											
m01	ECTS 7 Courses	Duration	1 semester V(3) + R(1) Module taught in: Englis	Method of grading numerical grade	Modul level	graduate						
			a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English									
	other prerequi	sites	Approval from examination committee required.									
Master's with 1 major P	hysics International (20	26)		JMU Würzburg • generated	25-Nov-2025 • exam. reg. data	record 88 j44 - - H 2026 page 30 / 40						

11-EXT8-Int-201-	Current Topics of Theoretical Physics											
mo1	ECTS 8	Duration	1 semester	Method of grading numerical grade	Modul level	graduate						
	Courses		V (4) + R (2) Module taught in: Engl	ish	,							
	Method of ass	sessment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English									
	other prerequ	isites	Approval from examina	ation committee required.								
11-EXT6A-Int-201-	Current Topic											
mo1	ECTS 6	Duration	1 semester	Method of grading numerical grade	Modul level	graduate						
	Courses		V (3) + R (1) Module taught in: Engl	V (3) + R (1) Module taught in: English								
	Method of ass		b) oral examination of c) oral examination in d) project report (appre) presentation/talk (a If a written examinatio form of an oral examin the lecturer must infor Language of assessment	pprox. 30 minutes). n was chosen as method of assessment, this m ation of one candidate each or an oral examina m students about this by four weeks prior to the ent: English	ay be changed and asstion in groups. If the m	ethod of assessment is changed,						
	other prerequ		Approval from examination committee required.									
11-EXP6A-Int-201-	Current Topic		rsics									
mo1	ECTS 6 Courses	Duration	1 semester V (3) + R (1) Module taught in: Engl	Method of grading numerical grade	Modul level	graduate						
	Method of ass		b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English									
	other prerequ	isites	Approval from examina	proval from examination committee required.								
Master's with 1 major Ph	ysics International (20	026)		JMU Würzburg • generated	25-Nov-2025 • exam. reg. data	record 88 j44 - - H 2026 page 31 / 40						

11-APM-Int-242-	Astroph	ysics										
mo1	ECTS	6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	5			+ R (2)		,					
	20 (1 1			Module taught in: English								
	Method	of ass	essment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or								
				c) oral examination in groups (groups of 2, approx. 30 minutes) or								
				d) pro	d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes).							
						orox. 30 minutes). was chosen as method of assessment, this	s may be changed and as	sessment may instead take the				
				form	of an oral examinat	ion of one candidate each or an oral exami	ination in groups. If the m	nethod of assessment is changed,				
						students about this by four weeks prior to	the original examination	date at the latest.				
					uage of assessment	i: English he semester in which the course is offered	and in the subsequent s	emester				
11-ATP-Int-242-	Atmosp	heric P	hvsics	7.0000		ne semester in which the course is offered	and in the subsequent's					
mo1		6	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	5			+ R (2)		ļ					
					Module taught in: English							
	Method	of ass	essment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or								
				c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or								
				d) project report (approx. 8 to 10 pages) or								
				e) 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: English Assessment offered: In the semester in which the course is offered and in the subsequent semester								
11-0QS-Int-242-	Open O	uantun	n Systems		Silient onereu: in t	The semiester in which the course is offered	and in the subsequent s	emester				
mo1		6	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses		1 - 3 3.3.3		+ R (1)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3				
				Module taught in: English								
	Method	of ass	essment			approx. 90 to 120 minutes) or						
						ne candidate each (approx. 30 minutes) or oups (groups of 2, approx. 30 minutes per						
				d) pro	oject report (approx	. 8 to 10 pages) or	candidate) of					
				e) 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: English								
				Asses	ssment offered: In t	he semester in which the course is offered	and in the subsequent s	emester				

Subfield Non-Phys	ical Mind	or (o-5 E	CTS cred	its)								
10-M-OML-222-	Optimiz	zation fo	or Machir	ne Lear	ning							
mo1	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5		V (4) - Modu	- Ü (2) le taught in: Germar	n and/or English						
	Method of assessment			b) ora c) ora Langu Asses	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus							
10-M-VAN-222- m01	Advanc	ed Anal	ysis									
	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5		V (4) +	+ Ü (2)							
	Method of assessment			b) ora c) ora Langu	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus							
10-M=AAA-	Applied Analysis											
Nin-152-m01	ECTS 10 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (4) + Ü (2) Module taught in: English								
	Method of assessment		essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus								
10-M=ADG-	Differer	ntial Ge	ometry					"				
Min-152-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		V (4) + Ü (2) Module taught in: English								
	Method of assessment			b) ora c) ora Langu Asses	l examination of one l examination in gro lage of assessment:	amination (approx. 90 to 120 minutes, usually chosen) or ination of one candidate each (approx. 20 minutes) or ination in groups (groups of 2, 15 minutes per candidate) assessment: English offered: In the semester in which the course is offered and in the subsequent semester r bonus						

10-M=AFT-	Comple	Complex Analysis												
Hin-152-m01	ECTS	10	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	!S			V (4) + Ü (2) Module taught in: English									
	Method	d of ass	essment	b) ora c) ora Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) canguage of assessment: English canguage of assessment offered: In the semester in which the course is offered and in the subsequent semester controlled for bonus									
10-M=AL-	Lie The	eory												
THin-152-mo1	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	!S			+ Ü (2) le taught in: Englis	sh								
	Method	d of ass	essment	b) ora c) ora Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) c.anguage of assessment: English c.assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus									
10-M=ATO-	Topolo	Topology												
Pin-152-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses				V (4) + Ü (2) Module taught in: English									
	Method of assessment			b) ora c) ora Langu Asses	l examination of o l examination in gr lage of assessmen	ne candidate each (ap roups (groups of 2, 15 t: English	minutes per candidate		emester					
10-M=AZTHin-152-		r Theor	у											
mo1	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			V (4) - Modu	+ Ü (2) le taught in: Englis	sh								
	Method	d of ass	essment	b) ora c) ora Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus									

10-M=VGD-	Groups	and the	ir Repres	sentati	ons							
Sin-152-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		V (4) - Modu	+ Ü (2) le taught in: English							
	Method	of asse	essment	b) ora c) ora Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus							
10-M=VGE-	Geomet	rical M	echanics									
Min-152-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5			(4) + Ü (2) Module taught in: English							
	Method	of asse	essment	b) ora c) ora Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) canguage of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus							
10-M=VN-	Numeric of Partial Differential Equations											
PEin-152-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (4) + Ü (2) Module taught in: English								
	Method	of asse	essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus								
10-M=VDI-	Discrete	e Mathe	matics					,				
Min-152-mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		V (3) + Ü (1) Module taught in: English								
	Method	of asse	essment	b) ora c) ora Langu Asses	l examination of one l examination in gro lage of assessment:	amination (approx. 60 to 90 minutes, usually chosen) or ination of one candidate each (approx. 15 minutes) or ination in groups (groups of 2, approx. 10 minutes per candidate) assessment: English offered: In the semester in which the course is offered and in the subsequent semester or bonus						

10-M=VM-	Selected Topics in Mathematical Physics											
PHin-152-mo1	ECTS	10	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S			V (4) + Ü (2) Module taught in: English							
	Method of assessment			b) ora c) ora Lange Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus							
10-M=VPD-	Partial	Differe	ntial Equa	tions	of Mathematical Ph	ysics	'					
Pin-152-m01	ECTS	10	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S			V (4) + Ü (2) Module taught in: English							
	Method	d of ass	essment	b) ora c) ora Langu Asses	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus							
10-M=V-	Pseudo Riemannian and Riemannian Geometry											
PRGin-152-mo1	ECTS	10	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (4) + Ü (2) Module taught in: English								
	Method	d of ass	essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus								
10-I=DB-161-m01	Databa	ses					,					
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2)	+ Ü (2)		,					
			essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Separate written examination for Master's students. Language of assessment: German and/or English creditable for bonus								
	Additio	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IS, HCI, GE.								

10-l=QC-221-m01	Quantui	Quantum Communications											
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	;		V (2) +				,					
					le taught in: English								
	Method	of asse		written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).									
				Language of assessment: English creditable for bonus									
				Focus	es available for stuc	dents of the Master's	programme Informatik (Compu	ter Science, 120	ECTS credits): LR				
10-I-RAK-152-m01	Comput												
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (2) +									
	Method	or asse		written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examinatio of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus § 22 I Nr. 3 b) § 69 Nr. 1 c): Rechnerarchitektur									
	Referred	d to in L											
10-I-APR-172-m01	Advance	ed Prog	ramming										
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (2) +									
	Method	of asse		written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus									
	Referred	d to in L	.PO I	§ 22 II	Nr. 3 b)								

10-l-BS-191-m01	Operating Systems												
	ECTS 5 Duration			1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses				V (2) + Ü (2) Module taught in: English								
	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus									
10-l=Kl1-212-m01	Artificia	rtificial Intelligence 1											
	ECTS 5 Duration			<u> </u>	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (2) -	V (2) + Ü (2)								
	Method	of asse	essment	written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus									
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,SE,KI,HCI									
08-FU-SAM-161-	Sensor a	nsor and Actor Materials - Functional Ceramics and Magnetic Particles											
mo1	ECTS 5 Duration			1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (2) + P (2)									
	Method	of asse	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) Language of assessment: German and/or English Assessment offered: Once a year, summer semester P: creditable for bonus									
08-FU-EEW-222-	Electroc	hemica	al Energy	Storage and Conversion									
mo1	ECTS 5 Duration			1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	;		V (2) + S (2) Module taught in: German or English									
	Method of assessment			a) written examination (approx. 90 minutes) or oral examination of one candidate each (approx. 30 minutes) and b) talk (approx. 30 minutes); (weighted 65:35) Language of assessment: German and/or English Assessment offered: Once a year, summer semester									

08-FU-MW-222-	Structure-Properties Correlations of Light Materials - Experiments and Numerical Simulations											
mo1	ECTS	ECTS 5 Duration		n 1 semester		Method of grading numerical grade		Modul level	graduate			
	Courses			V (2) + S (2) Module taught in: German or English								
	Method	d of ass	essment	a) written examination (approx. 90 minutes) or oral examination of one candidate each (approx. 30 minutes) and b) talk (approx. 30 minutes); (weighted 60:40) Language of assessment: German and/or English Assessment offered: Once a year, winter semester								
11-EXNP6-Int-201-	Nonphysical Minor Subject											
mo1	ECTS 6 Duration			n	1 semester	Method of grading In	umerical grade	Modul level	graduate			
	Course	S	•	V (3) + R (1) Module taught in: English								
	Method	d of ass	essment	a) written examination (approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) 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: English								
	other prerequisites				Approval from examination committee required.							
Master Project Mod	dules (60 ECTS credits)											
11-FS-P-Int-201-	Profess	sional S	pecializa	tion Pl	tion Physics International							
mo1	ECTS	15	Duratio	n	1 semester	Method of grading (n	ot) successfully completed	Modul level	graduate			
	Course	·S		S (4) Module taught in: English								
	Method	d of ass	essment	talk with discussion (30 to 45 minutes) Language of assessment: English								
11-MP-P-Int-201-	Scienti	ific Met	hods and	Projec	Project Management Physics International							
mo1	ECTS 15 Duratio			1 semester Method of grading (not) successfully completed Modul level graduate								
	Course	S		R (4) Module taught in: English								
	Method	d of ass	essment	talk with discussion (30 to 45 minutes) Language of assessment: English								

[:	11-MA-P-Int-201-	Master Thesis Physics International									
1	mo1	ECTS	30	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate	
Courses No courses assigned to module						urses assigned to m	odule				
		Method	of asse			r's thesis (750 to 90					
Language of assessment: English											
Additional Information Time to complete: 6 months											