

Annex SFB

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

Responsible: Institute of Mathematics Examination regulations version: 2012 **Responsible:** Faculty of Physics and Astronomy Examination regulations version: 2012 Abbreviations used: Course types: $\mathbf{E} = \text{field trip}$, $\mathbf{K} = \text{colloquium}$, $\mathbf{O} = \text{conversatorium}$, $\mathbf{P} = \text{placement/lab course}$, $\mathbf{R} = \text{project}$, $\mathbf{S} = \text{seminar}$, $\mathbf{T} = \text{tutorial}$, $\mathbf{U} = \text{exercise}$, \mathbf{V} = lecture Term: **SS** = summer semester. **WS** = winter semester Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB = list of modules Other: A = thesis, LV = course(s), PL = assessment(s), TN = participants, VL = prerequisite(s) Conventions for the Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cremodules in this SFB: ditable for bonus. Information on Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the meassessment procedures: thod 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.

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

ASP02009

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

12-Jul-2012 (2012-115)

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	ECTS Durat			(in semesters)	Method of grading		Module level			
	Courses			To be spe	o 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	ssessn	nent								
	Only after successful completion of			if applica	fapplicable						
	Other prerequisites			if applicable							
	Participants and allocation of places			if applicable							
	Additional information			if applicable							
	Referred to in LPO I			if applicable (examination regulations for teaching-degree programmes)							

Compulsory Course	es (50 ECTS cred	lits)									
10-M=MP1-122-	Analysis and G	ieometry	of Clas	sical Systems							
m01	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V + Ü	+ Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of ass	essment	At the (appro nation Langu	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (approx. 90 to 120 minutes; usually chosen), b) oral examination of one candidate each (approx. 20 minutes), c) oral exami- nation in groups of 2 candidates (approx. 30 minutes total) Language of assessment: German, English							
10-M=MP2-122-	other prerequis	sites	Certai tive d on to the le sessn ficatio	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							
10-M=MP2-122-	Algebra and D	ynamics o	of Quar	ntum Systems							
m01	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V + Ü	(no information on S	SWS (weekly contact	hours) and course language ava	ailable)				
	Method of asso	essment	At the (appropriation nation Langu	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (approx. 90 to 120 minutes; usually chosen), b) oral examination of one candidate each (approx. 20 minutes), c) oral examination in groups of 2 candidates (approx. 30 minutes total) Language of assessment: German, English							
	other prerequis	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-FS-MP-122-m01	Professional S	pecializa	tion Mathematical Physics								
	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (no	information on SWS	6 (weekly contact hou	rs) and course language availal	ble)				
	Method of ass	essment	talk with discussion (approx. 30 to 45 minutes) Language of assessment: German, English								
	other prerequis	sites	Certai tive d on to the le sessn ficatio	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							

Master's with 1 major Mathematical Physics (2012)	JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 88 b55 - - H 2012	page 3 / 46

11-MP-MP-122-m01	Scienti	Scientific Methods and Project Management Mathematical Physics												
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		S (no	(no information on SWS (weekly contact hours) and course language available)									
	Methoo	d of asse	essment	talk w Langu	alk with discussion (approx. 30 to 45 minutes) anguage of assessment: German, English									
	other p	rerequis	sites	Certai tive d on to the le sessm ficatio	n prerequisites must etails at the beginnir assessment. If stude cturer will put their re nent in the current or on for admission to a	t be met to qualify fo ng of the course. Reg ents have obtained th egistration for assess in the subsequent s ssessment anew.	r admission to assessment. The istration for the course will be o ne qualification for admission to sment into effect. Students who emester. For assessment at a la	e lecturer will in considered a de o assessment o o meet all prere ater date, stude	form students about the respec- claration of will to seek admissi- ver the course of the semester, quisites will be admitted to as- nts will have to obtain the quali-					

11-MP-AG-122-m01	Study Group N	Nathematic	cal Ph	ysics			
	ECTS 10	Duration		1 semester	Method of grading numerical grade	Modul level	graduate
	ECTS 10 Courses	Duration	Mathe Arbeit lish, c Arbeit tact h Arbeit hours Arbeit kly co Arbeit hours Arbeit hours Arbeit Analy Arbeit week	1 semester matics Courses: segemeinschaft Alge once a year segemeinschaft Disk ours), German or En segemeinschaft Dyn) + S (2 weekly cont segemeinschaft Fun), German or English segemeinschaft Geo ntact hours), Germa segemeinschaft Mat) + S (2 weekly cont segemeinschaft Mat), German or English segemeinschaft Mat), German or English segemeinschaft Nun sis): V (2 weekly cont segemeinschaft Rob y contact hours) + S	Method of grading numerical grade ebra (Study Group Algebra): V (2 weekly contact krete Mathematik (Study Group Discrete Mathem aglish, available as necessary amische Systeme und Regelung (Study Group D act hours), German or English, available as nece ktionentheorie (Study Group Complex Analysis): h, available as necessary metrie und Topologie (Study Group Geometry ar an or English, available as necessary hematik in den Naturwissenschaften (Study Gro act hours), German or English, available as neces an or English, available as necessary hematik in den Naturwissenschaften (Study Gro act hours), German or English, available as necessary nerische Mathematik und Angewandte Analysis ntact hours) + S (2 weekly contact hours), Germa otik, Optimierung und Kontrolltheorie (Study Gro	Modul level hours) + S (2 weekly natics): V (2 weekly ynamical Systems a essary : V (2 weekly contac nd Topology): V (2 w oup Mathematics in essary al): V (2 weekly cont (Study Group Nume an or English, availa oup Robotics, Optin vailable as necessa	graduate y contact hours), German or Eng- contact hours) + S (2 weekly con- and Control): V (2 weekly contact t hours) + S (2 weekly contact veekly contact hours) + S (2 wee- the Sciences): V (2 weekly contact act hours) + S (2 weekly contact erical Mathematics and Applied ble as necessary nisation and Control Theory): V (2 rv
			Arbeit years Physic Arbeit study Arbeit conta Arbeit mento Arbeit S (no Arbeit	cs courses: cs courses: csgemeinschaft Hop group sessions), Ge csgemeinschaft Kon oring during study g csgemeinschaft Moc ct hours, mentoring csgemeinschaft Mat oring during study g csgemeinschaft Ope set number of week csgemeinschaft Qua	of-Algebren (Study Group Hopf Algebras): S (2 w of-Algebren (Study Group Number Theory): S (2 w erman or English forme Feldtheorie (Study Group Conformal Field roup sessions), German or English derne Differentialgeometrie (Study Group Moder g during study group sessions), German or Englis hematische Physik (Study Group Mathematical roup sessions), German or English eratoralgebren und Darstellungstheorie (Study G cly contact hours, mentoring during study group antenfeldtheorie (Study Group Quantum Field Th	eekly contact hours eekly contact hours Theory): S (no set r n Differential Geom sh Physics): S (no set r roup Operator Algel sessions), German eory): S (no set nun	y contact hours, mentoring during number of weekly contact hours, etry): S (no set number of weekly number of weekly contact hours, bras and Representation Theory): or English hber of weekly contact hours,
			mento Arbeit mento Arbeit ber of Arbeit mento	oring during study g segemeinschaft Rier oring during study g segemeinschaft Sym weekly contact hou segemeinschaft Stat oring during study g	roup sessions), German or English nannsche Geometrie (Study Group Riemannian roup sessions), German or English nplektische und Poisson-Geometrie (Study Grou urs, mentoring during study group sessions), Ger tistische Mechanik (Study Group Statistical Mec roup sessions), German or English	Geometry): S (no se p Symplectic and Po rman or English hanics): S (no set n	t number of weekly contact hours, bisson Geometry): S (no set num- umber of weekly contact hours,
	Method of ass	essment	Mathe This n	ematics Courses: nodule will be asses	ssed by one or two of the following methods (to	be selected by the l	ecturer at the beginning of the
Master's with 1 major Ma	thematical Physics (20	012)		Topics covered in a	JMU Würzburg • generated 26-A	Aug-2024 • exam. reg. data	record 88 b55 - - H 2012 page 5 / 46
			Langu	elaboration (appro date each (approx age of assessment:	ox. 5 to 30 pages), written examination (approx. 15 to 20 minutes) or oral examination in groups : German or English	60 to 120 minutes), s of 2 candidates (a	oral examination of one candi- pprox. 20 to 30 minutes).

Compulsory Electives (40 ECTS credits)

Compulsory Electives Mathematics

/ + Ü (no information on SWS (weekly contact hours) and course language available)															
At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (90 to 120 minutes), b) oral examination of one candidate each (approx. 20 minutes), c) oral examination in groups (groups of 2, approx. 30 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, cour- se offered on demand or every four semesters.															
								Language of assessment: German, English							
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								ent							
ails at the beginning of the course. Registration for the exercises will be considered a declaration of will to seek admission to															
lec-															
1ent															
V + Ü (no information on SWS (weekly contact hours) and course language available)															
At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination															
(90 to 120 minutes), b) oral examination of one candidate each (approx. 20 minutes), c) oral examination in groups (groups of															
cour-															
se offered on demand or every four semesters.															
Language of assessment: German, English															
n ac-															
cordance with the specified registration deadlines. Certain prerequisites must be met to quality for admission to assessment $(e, g, successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de-$															
tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to															
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Master's with 1 major Mathematical Physics (2012)	JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 88 b55 - - H 2012	page 6 / 46

10-M=ADG-	Diffe	rential Ge	eometry								
M-102-m01	ECTS	10	Duratio	n	1 semester	Method of grading nu	merical grade	Modul level	graduate		
	Cours	ses		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Meth	od of ass	essment	At the (90 to 2, app Asses se off Langu	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (90 to 120 minutes), b) oral examination of one candidate each (approx. 20 minutes), c) oral examination in groups (groups of 2, approx. 30 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, course offered on demand or every four semesters. Language of assessment: German, English						
	other	prerequi	sites	Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							
10-M=AFT-	Com	olex Anal	ysis								
H-102-m01	ECTS	10	Duratio	n	1 semester	Method of grading nu	merical grade	Modul level	graduate		
	Cours	ses		V + Ü	(no information on	SWS (weekly contact hou	ırs) and course language av	ailable)			
	Method of assessment			At the (90 to 2, app Asses se off Langu	beginning of the co 120 minutes), b) of prox. 30 minutes) sement offered: Asse ered on demand or lage of assessment	ourse, the lecturer will che ral examination of one ca essment offered in the se every four semesters. :: German, English	oose one of the following m ndidate each (approx. 20 n mester in which the course	nethods of asses ninutes), c) oral is offered and in	ssment: a) written examination examination in groups (groups of n the subsequent semester, cour-		
	other	prerequi	sites	Language of assessment: German, English Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							

10-M=AGMS-102-	Geome	etric Stru	uctures								
m01	ECTS	10	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Metho	d of ass	essment	At the	beginning of the co	urse, the lecturer wil	l choose one of the following m	ethods of asses	ssment: a) written examination		
				(90 to	120 minutes), b) or prox 20 minutes)	al examination of on	e candidate each (approx. 20 m	inutes), c) oral	examination in groups (groups of		
				Langu	Language of assessment: German, English						
	other p	prerequi	sites	Regist corda (e.g. tails a asses turer in the admis	Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.						
10-M=AGP-	Giovanni-Prodi Lecture (Master)										
C-102-m01	ECTS 5 Duratio		n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (60 to 90 minutes), b) oral examination of one candidate each (approx. 15 minutes), c) oral examination in groups (groups of 2, approx. 20 minutes) Language of assessment: English, German if agreed upon with the examiner							
	other p	prerequi	sites	Regist corda (e.g. tails a asses turer in the admis	tration for the exerci nce with the specific successful completi at the beginning of the sment. If students he will put their registration current or in the sub- ssion to assessment	se must be made via ed registration deadl on of a certain perce ne course. Registratio ave obtained the qu tion for assessment osequent semester. I anew.	SB@home at the beginning of ines. Certain prerequisites must ntage of exercises). The lecturer on for the exercise will be consic alification for admission to asse into effect. Students who meet For assessment at a later date, s	the course or as be met to qual will inform stu dered a declara essment over th all prerequisite students will ha	s announced by the lecturer in ac- lify for admission to assessment dents about the respective de- tion of will to seek admission to e course of the semester, the lec- s will be admitted to assessment ve to obtain the qualification for		

10-M=ALTH-102-	Lie The	eory										
m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es	_	V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Metho	d of ass	essment	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (90 to 120 minutes), b) oral examination of one candidate each (approx. 20 minutes), c) oral examination in groups (groups of 2, approx. 30 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, cour- se offered on demand or every four semesters. Language of assessment: German, English								
	other p	orerequi	sites	Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								
10-M=ANG-	Numer	Numeric of large Systems of Equations										
G-102-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V + Ü	(no information on S	SWS (weekly contact	hours) and course lan	iguage available)				
	Method of assessment			At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (90 to 120 minutes), b) oral examination of one candidate each (approx. 20 minutes), c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English								
	other p	prerequi	sites	Language of assessment: German, English Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								

10-M=AOP-	Basic	s of Opti	mization								
T-102-m01	ECTS	10	Duratio	n	1 semester	Method of grading r	umerical grade	Modul level	graduate		
	Cours	es		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Metho	od of ass	essment	At the (90 to 2, ap Asses se off Langu	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (90 to 120 minutes), b) oral examination of one candidate each (approx. 20 minutes), c) oral examination in groups (groups of 2, approx. 30 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, course offered on demand or every four semesters. Language of assessment: German, English						
	other	prerequi	sites	Regis corda (e.g. tails a asses turer in the admis	Registration for the exercise must be made via SB@nome at the beginning of the course of as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.						
10-M=ARTH-102-	Introc	luction t	o Control	Theory	heory						
m01	ECTS	10	Duratio	n	1 semester	Method of grading r	umerical grade	Modul level	graduate		
	Cours	es		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Metho	od of ass	essment	written examination (approx. 90 to 120 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, course offered on demand or every four semesters. Language of assessment: German or English							
	other	prerequi	sites	Language of assessment: German or English Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							

10-M=AST-	Stochastical Processes											
P-102-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	.s		V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Metho	d of asse	essment	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (90 to 120 minutes), b) oral examination of one candidate each (approx. 20 minutes), c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English								
	other p	prerequis	sites	Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								
10-M=A-	Topology											
TOP-102-m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V + Ü	(no information on S	SWS (weekly contact	hours) and course language a	vailable)				
	Metho	d of asse	essment	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (90 to 120 minutes), b) oral examination of one candidate each (approx. 20 minutes), c) oral examination in groups (groups of 2, approx. 30 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, course offered on demand or every four semesters. Language of assessment: German, English								
	other p	prerequis	sites	Language of assessment: German, English Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								

10-M=AZTH-102-	Numb	Number Theory													
m01	ECTS	10	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate							
	Course	es		V + Ü	(no information on S	SWS (weekly contact hours) and course lan	guage available)								
	Metho	d of ass	essment	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (90 to 120 minutes), b) oral examination of one candidate each (approx. 20 minutes), c) oral examination in groups (groups of 2, approx. 30 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, cour- se offered on demand or every four semesters. Language of assessment: German, English											
	other	prerequi	sites	cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.											
Specialisation Mat	hemati	cs													
10-M=VA-	Selected Topics in Analysis														
NA-122-m01	ECTS	10	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate							
	Course	es		V + Ü (no information on SWS (weekly contact hours) and course language available)											
	Metho	od of asso	essment	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (approx. 90 to 120 minutes; usually chosen), b) oral examination of one candidate each (approx. 20 minutes), c) oral examination in groups of 2 candidates (approx. 30 minutes total) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, course offered on demand or every four semesters.											
	other	prerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.											

10-M=VAT-	Algebr	aic Topo	logy								
P-102-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	.s	V	′ + Ü	(no information on S	SWS (weekly contact	hours) and course language a	available)			
	Metho	d of asse	essment A (a n La	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (approx. 90 to 120 minutes; usually chosen), b) oral examination of one candidate each (approx. 20 minutes), c) oral exami- nation in groups of 2 candidates (approx. 30 minutes total) Language of assessment: German, English							
	other p	orerequis	sites R cc (¢ ta a. tu ir a	cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							
10-M=V-	Discrete Mathematic										
DIM-102-m01	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	:S	V	′ + Ü	(no information on S	SWS (weekly contact	hours) and course language a	available)			
	Metho	d of asse	essment A (é 2 A 5 Li	t the 60 to , app sses e offe angu	beginning of the co 90 minutes), b) ora orox. 20 minutes) sment offered: Asse ered on demand or e age of assessment:	urse, the lecturer wil l examination of one essment offered in th every four semesters. German, English	l choose one of the following candidate each (approx. 15 n e semester in which the cours	methods of asses ninutes), c) oral e se is offered and i	ssment: a) written examination xamination in groups (groups of n the subsequent semester, cour-		
	other p	prerequis	ites R cc (e ta a. tu ir a	Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							

10-M=VDS-	Dynar	Dynamical Systems and Control													
R-102-m01	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Ν	Nodul level	graduate						
	Cours	es		V + Ü (no information on SWS (weekly contact hours) and course language available)											
	Metho	od of ass	essment	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (60 to 90 minutes), b) oral examination of one candidate each (approx. 15 minutes), c) oral examination in groups (groups of 2, approx. 20 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, course offered on demand or every four semesters. Language of assessment: German, English											
	other	prerequi	sites	Registration for the exercise must be made via SB@home at the beginning of the course of as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.											
10-M=VGDS-102-	Groups and their Representations														
m01	ECTS	10	Duration	<u>1</u>	1 semester	Method of grading numerical grade	Ν	Modul level	graduate						
	Cours	es		V + Ü	(no information on	SWS (weekly contact hours) and course lar	nguage avail	lable)							
	Metho	od of ass	essment	At the (appro- nation Asses se off Langu	beginning of the c ox. 90 to 120 minut n in groups of 2 car ssment offered: Ass ered on demand or lage of assessment	course, the lecturer will choose one of the fo tes; usually chosen), b) oral examination of ndidates (approx. 30 minutes total) sessment offered in the semester in which the r every four semesters. It: German, English	ollowing met f one candida the course is	hods of asse ate each (app offered and i	ssment: a) written examination prox. 20 minutes), c) oral exami- in the subsequent semester, cour-						
	other	prerequi	sites	Regis corda (e.g. tails a asses turer in the admis	tration for the exerce nce with the specif successful complet at the beginning of sment. If students will put their registe current or in the su	cise must be made via SB@home at the beg fied registration deadlines. Certain prerequi tion of a certain percentage of exercises). Th the course. Registration for the exercise wil have obtained the qualification for admissi ration for assessment into effect. Students ubsequent semester. For assessment at a la nt anew.	ginning of th iisites must b The lecturer w Il be conside sion to assess who meet al ater date, stu	ne course or a be met to qua vill inform stu ered a declara sment over th Il prerequisite udents will ha	s announced by the lecturer in ac- lify for admission to assessment idents about the respective de- ation of will to seek admission to be course of the semester, the lec- es will be admitted to assessment ave to obtain the qualification for						

10-M=V-	Geome	Geometrical Mechanics												
GEM-102-m01	ECTS	10	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	es		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)									
	Metho	d of ass	essment	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (approx. 90 to 120 minutes; usually chosen), b) oral examination of one candidate each (approx. 20 minutes), c) oral exami- nation in groups of 2 candidates (approx. 30 minutes total) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, cour- se offered on demand or every four semesters. Language of assessment: German, English										
	other p	orerequi	sites	Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.										
10-M=V-	Aspect	s of Geo	metry			1								
GEO-102-m01	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	s		V + Ü (no information on SWS (weekly contact hours) and course language available)										
	Metho	d of asso	essment	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (60 to 90 minutes), b) oral examination of one candidate each (approx. 15 minutes), c) oral examination in groups (groups of 2, approx. 20 minutes) Language of assessment: German, English										
	other p	prerequi	sites	Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.										

10-M=VGP-	Giovanni-Prodi Lecture Selected Topics (Master)											
C-122-m01	ECTS	10	Duration	I	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + Ü	(no information on S	SWS (weekly contact	hours) and course language ava	ailable)				
	Metho	d of asse	essment	At the	beginning of the co	urse, the lecturer wil	l choose one of the following m	ethods of asses	ssment: a) written examination			
				(approx. 90 to 120 minutes; usually chosen), b) oral examination of one candidate each (approx. 20 minutes), c) oral exami-								
				Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, cour-								
				se offered on demand or every four semesters.								
				Language of assessment: English, German if agreed upon with the examiner								
	other p	orerequis	sites	Certai	n prerequisites mus	t be met to qualify fo	or admission to assessment. The	e lecturer will in	form students about the respec-			
				tive de	etails at the beginni	ng of the course. Reg	sistration for the course will be c	onsidered a de	claration of will to seek admissi-			
				the le	assessment. If stude	ents have obtained t	sment into effect. Students who	o meet all prere	ouisites will be admitted to as-			
				sessm	ient in the current of	r in the subsequent s	semester. For assessment at a la	ater date, stude	ints will have to obtain the quali-			
				ficatio	on for admission to a	assessment anew.		-				
10-M=V-	Basics in Mathematics											
GRM-102-m01	ECTS 5 Duratio		Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Metho	d of asse	essment	At the	beginning of the co	urse, the lecturer wil	l choose one of the following m	ethods of asses	ssment: a) written examination			
				(60 to 90 minutes), b) oral examination of one candidate each (approx. 15 minutes), c) oral examination in groups (groups of								
				Langu	age of assessment:	German. English						
	other p	rereauis	ites	Regist	ration for the exerci	se must be made via	SB@home at the beginning of	the course or a	s announced by the lecturer in ac-			
	··· · .			corda	nce with the specifie	ed registration deadl	ines. Certain prerequisites must	be met to qual	lify for admission to assessment			
				(e. g. s	successful completi	on of a certain perce	ntage of exercises). The lecturer	will inform stu	dents about the respective de-			
				tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to								
				turer	will put their registra	tion for assessment	into effect. Students who meet	all prerequisite	s will be admitted to assessment			
				in the	current or in the sul	osequent semester.	For assessment at a later date, s	students will ha	ve to obtain the qualification for			
				admis	sion to assessment	anew.			·			

10-M=V-	Mathe	matical (Continuum	n Mecl	nanics					
KOM-122-m01	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	S	,	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method	d of asse ا	ssment	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination						
				(60 to	90 minutes), b) ora	l examination of one	candidate each (approx. 15 mir	nutes), c) oral e	xamination in groups (groups of	
				Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, cour-						
			1	se offered on demand or every four semesters.						
				Language of assessment: German, English						
	other p	rerequis	lites	Certai	n prerequisites mus	t be met to qualify fo	or admission to assessment. The	e lecturer will in considered a de	form students about the respec-	
				on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester,						
				the lea	cturer will put their r	egistration for asses	sment into effect. Students who	o meet all prere	quisites will be admitted to as-	
			1	sessm	ient in the current of	r in the subsequent s	semester. For assessment at a la	ater date, stude	ents will have to obtain the quali-	
10-M-VMB-	Mathematical Imaging									
V-102-m01	FCTS		Duration		1 comostor	Mothod of grading	numerical grade	Modulloval	graduato	
	ECIS 5 Duratio		Duration	V + II (no information on SWS (weekly contact hours) and course language available)						
	Matha		comont	$v \neq 0$ (no momentum on Sw5 (weekly contact hours) and course tanguage available) At the beginning of the course, the locturer will choose one of the following methods of accossment: a) written examination						
	method	I OI asse	ssment	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (60 to 00 minutes) b) oral examination of one candidate each (approx 15 minutes) c) oral examination in groups (groups of						
				2, app	orox. 20 minutes)					
			1	Language of assessment: German, English						
	other p	rerequis	sites	Regist	ration for the exerci	se must be made via	SB@home at the beginning of	the course or a	s announced by the lecturer in ac-	
			1	corda	nce with the specifie	ed registration deadl	ines. Certain prerequisites must	t be met to qua	lify for admission to assessment	
				tails a	t the beginning of th	ne course. Registratio	on for the exercise will be consid	dered a declara	tion of will to seek admission to	
				asses	sment. If students h	ave obtained the qu	alification for admission to asse	essment over th	e course of the semester, the lec-	
			1	turer v	vill put their registra	tion for assessment	into effect. Students who meet	all prerequisite	s will be admitted to assessment	
				in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for						

10-M=VMPH-102-	Select	Selected Topics in Mathematical Physics													
m01	ECTS	5	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Course	es		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)										
	Metho	d of asse	essment	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (60 to 90 minutes), b) oral examination of one candidate each (approx. 15 minutes), c) oral examination in groups (groups of 2, approx. 20 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, cour- se offered on demand or every four semesters. Language of assessment: German, English											
	other p	prerequis	sites	cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.											
10-M=VMT-	Modul	Theory													
H-102-m01	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Course	es		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)										
	Metho	d of asse	essment	At the (60 to 2, app Langu	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (60 to 90 minutes), b) oral examination of one candidate each (approx. 15 minutes), c) oral examination in groups (groups o 2, approx. 20 minutes) Language of assessment: German, English										
	other p	prerequis	sites	Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.											

10-M=V-	Non-Li	near Ana	alysis								
NAN-102-m01	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	!S		V + Ü	(no information on S	SWS (weekly contact	hours) and course language av	ailable)			
	Metho	d of asse	essment	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (60 to 90 minutes), b) oral examination of one candidate each (approx. 15 minutes), c) oral examination in groups (groups of 2, approx. 20 minutes) Language of assessment: German, English							
	other p	prerequis	sites	Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							
10-M=VN-	Numeric of Partial Differential Equations										
PE-102-m01	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es.		V + Ü	(no information on S	SWS (weekly contact	hours) and course language av	ailable)			
	Metho	d of asse	essment	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (90 to 120 minutes), b) oral examination of one candidate each (approx. 20 minutes), c) oral examination in groups (groups of 2, approx. 30 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, course offered on demand or every four semesters. Language of assessment: German, English							
	other p	prerequis	sites	Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.							

10-M=VOST-102-	Optima	al Contro	ol									
m01	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	.s		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Metho	d of asse	essment	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (60 to 90 minutes), b) oral examination of one candidate each (approx. 15 minutes), c) oral examination in groups (groups of 2, approx. 20 minutes) Language of assessment: German, English								
	other p	prerequis	sites	Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.								
10-M=VQK-	Quantum Control and Quantum Computing											
C-102-m01	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	!S		V + Ü	(no information on S	SWS (weekly contact	hours) and course language ava	ailable)				
	Metho	d of asse	essment	At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (60 to 90 minutes), b) oral examination of one candidate each (approx. 15 minutes), c) oral examination in groups (groups of 2, approx. 20 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, course offered on demand or every four semesters. Language of assessment: German, English								
	other p	prerequis	sites	Regist cordar (e.g.s tails a asses turer v in the admis	ration for the exerci nce with the specific successful completi t the beginning of th sment. If students h vill put their registra current or in the sul sion to assessment	se must be made via ed registration deadli on of a certain percer ne course. Registratic ave obtained the qua ition for assessment osequent semester. F	SB@home at the beginning of ines. Certain prerequisites must ntage of exercises). The lecturer on for the exercise will be consid alification for admission to asse into effect. Students who meet for assessment at a later date, s	the course or as t be met to qua will inform stu dered a declara essment over th all prerequisite students will ha	s announced by the lecturer in ac- lify for admission to assessment dents about the respective de- tion of will to seek admission to e course of the semester, the lec- s will be admitted to assessment ve to obtain the qualification for			

10-M=V-	Statist	ical Ana	lysis								
STA-102-m01	ECTS	10	Duratior	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V + Ü	(no information on S	SWS (weekly contact	hours) and course language ava	ailable)			
	Metho	d of asse	essment	At the	beginning of the co	urse, the lecturer wil	l choose one of the following me	ethods of asses	ssment: a) written examination		
				(90 to	120 minutes), b) or	al examination of on	e candidate each (approx. 20 m	inutes), c) oral	examination in groups (groups of		
				Language of assessment: German, English							
	other r	rerequis	sites	Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac-							
				cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment							
				(e. g. 9	successful completi	on of a certain perce	ntage of exercises). The lecturer	will inform stu	dents about the respective de-		
				taits a	sment. If students h	ave obtained the qua	alification for admission to asse	ssment over th	e course of the semester, the lec-		
				turer v	vill put their registra	tion for assessment	into effect. Students who meet	all prerequisite	s will be admitted to assessment		
	Natura Custome			in the	in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.						
				admis	sion to assessment	anew.					
10-M=VV-	Networked Systems										
31-102-1101	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V + U (no information on SWS (weekly contact hours) and course language available)							
	Metho	d of asse	essment	At the	beginning of the co	urse, the lecturer wil	l choose one of the following me	ethods of asses	ssment: a) written examination		
				2. apr	orox. 20 minutes), b) ora	l examination of one	candidate each (approx. 15 mm	iules), c) oral e	xammation in groups (groups of		
				Language of assessment: German, English							
	other p	rerequis	sites	Regist	ration for the exerci	se must be made via	SB@home at the beginning of t	the course or a	s announced by the lecturer in ac-		
				corda	nce with the specifie	ed registration deadl	ines. Certain prerequisites must	be met to qual	lify for admission to assessment		
				(e.g. 9 tails a	successful completi t the beginning of th	on of a certain percei	ntage of exercises). The lecturer	Will inform stu-	dents about the respective de-		
				asses	sment. If students h	ave obtained the qua	alification for admission to asse	ssment over th	e course of the semester, the lec-		
				turer v	vill put their registra	tion for assessment	into effect. Students who meet a	all prerequisite	s will be admitted to assessment		
				in the	current or in the sul	osequent semester. I	For assessment at a later date, s	tudents will ha	ve to obtain the qualification for		
				aumis	sion to assessment	anew.					

Seminars Mathematics												
10-M=SAD-	Semina	r in App	lied Diffe	erentia	l Geometry							
G-102-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		S (no	information on SWS	(weekly contact ho	urs) and course language a	available)	·			
	Method	of asse	essment	At the tation minut Asses se off Langu	At the beginning of the course, the lecturer will choose one or two of the following methods of assessment: a) seminar presen- tation (approx. 60 to 120 minutes), b) written elaboration of contents equivalent to a seminar presentation of approx. 60 to 90 minutes Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, cour- se offered on demand or every four semesters. Language of assessment: German, English							
	other pi	rerequis	sites	Regist corda vious	egistration for the seminar must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- ordance with the specified registration deadlines. Some seminars or workshops might only be open for students with pre- ious knowledge and/or skills in certain areas. Where applicable, details will be specified in the class schedule.							
10-M=SAL-	Semina	r in Alg	ebra									
G-102-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		S (no	information on SWS	6 (weekly contact ho	urs) and course language a	available)				
	Method of assessment			At the beginning of the course, the fecturer will choose one of two of the following methods of assessment: a) seminar presen- tation (approx. 60 to 120 minutes), b) written elaboration of contents equivalent to a seminar presentation of approx. 60 to 90 minutes Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, cour- se offered on demand or every four semesters. Language of assessment: German, English								
	other prerequisites			Registration for the seminar must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Some seminars or workshops might only be open for students with pre- vious knowledge and/or skills in certain areas. Where applicable, details will be specified in the class schedule.								
10-M=SDS-	Semina	r in Dyr	amical S	ystem	s and Control							
R-102-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		S (no	information on SWS	6 (weekly contact ho	urs) and course language a	available)				
	Method	of asse	essment	At the beginning of the course, the lecturer will choose one or two of the following methods of assessment: a) seminar presen- tation (approx. 60 to 120 minutes), b) written elaboration of contents equivalent to a seminar presentation of approx. 60 to 90 minutes Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, cour- se offered on demand or every four semesters. Language of assessment: German, English								
	other pi	rerequis	sites	Registration for the seminar must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Some seminars or workshops might only be open for students with pre- vious knowledge and/or skills in certain areas. Where applicable, details will be specified in the class schedule.								

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10-M=SFT-	Seminar in Complex Analysis											
H-102-m01	ECTS	5	Duratior	า	1 semester	Method of grading numerical grade		Modul level	graduate			
	Courses	;		S (no	information on SWS	6 (weekly contact hours) and course lang	uage availa	ble)				
	Method	of ass	essment	At the tation minut	beginning of the co (approx. 60 to 120 es	ourse, the lecturer will choose one or two minutes), b) written elaboration of conte	o of the follow ents equivale	wing methods o ent to a semina	of assessment: a) seminar presen- r presentation of approx. 60 to 90			
				Asses se offe Langu	sment offered: Asse ered on demand or age of assessment:	essment offered in the semester in which every four semesters. : German, English	n the course	is offered and i	in the subsequent semester, cour-			
	other pr	rerequi	sites	Regist corda vious	Registration for the seminar must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Some seminars or workshops might only be open for students with pre- vious knowledge and/or skills in certain areas. Where applicable, details will be specified in the class schedule.							
10-M=SGM-	Semina	r in Ge	ometry an	d Topo	logy							
T-102-m01	ECTS	5	Duratior	า	1 semester	Method of grading numerical grade		Modul level	graduate			
	Courses	;		S (no	S (no information on SWS (weekly contact hours) and course language available)							
	Method	of ass	essment	At the beginning of the course, the lecturer will choose one or two of the following methods of assessment: a) seminar presen- tation (approx. 60 to 120 minutes), b) written elaboration of contents equivalent to a seminar presentation of approx. 60 to 90 minutes Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, cour- se offered on demand or every four semesters. Language of assessment: German, English								
	other pr	rerequi	sites	Registration for the seminar must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Some seminars or workshops might only be open for students with pre- vious knowledge and/or skills in certain areas. Where applicable, details will be specified in the class schedule.								
10-M=SGP-	Giovanr	ni-Prod	i Seminar	(Mast	er)							
C-102-m01	ECTS	5	Duration	า	1 semester	Method of grading numerical grade		Modul level	graduate			
	Courses	;		S (no	information on SWS	δ (weekly contact hours) and course lang	uage availa	ble)				
	Method	of ass	essment	At the beginning of the course, the lecturer will choose one or two of the following methods of assessment: a) seminar presen- tation (approx. 60 to 120 minutes), b) written elaboration of contents equivalent to a seminar presentation of approx. 60 to 90 minutes Language of assessment: English, German if agreed upon with the examiner								
	other pr	erequi	sites	Regist corda vious	ration for the semir nce with the specifi knowledge and/or s	nar must be made via SB@home at the b ed registration deadlines. Some seminal skills in certain areas. Where applicable,	eginning of rs or worksh details will	the course or a ops might only be specified in	s announced by the lecturer in ac- be open for students with pre- the class schedule.			

10-M=SID-	Interd	iterdisciplinary Seminar											
Z-102-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Cours	es	-3	S (no	information on SWS	(weekly contact hours) and course language availa	ble)						
	Metho	od of asse	essment	At the tation minut Langu	beginning of the co (approx. 60 to 120 es age of assessment:	ourse, the lecturer will choose one or two of the follo minutes), b) written elaboration of contents equival German, English	wing methods c ent to a semina	of assessment: a) seminar presen- r presentation of approx. 60 to 90					
	other	prerequis	sites	Registration for the seminar must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Some seminars or workshops might only be open for students with pre- vious knowledge and/or skills in certain areas. Where applicable, details will be specified in the class schedule.									
10-M=SN-	Semir	nar in Nur	merical M	athem	atics and Applied A	nalysis							
MA-102-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Cours	es		S (no	information on SWS	5 (weekly contact hours) and course language availa	ble)						
	Metho other	od of asse	essment	At the beginning of the course, the lecturer will choose one of two of the following methods of assessment: a) seminar presen- tation (approx. 60 to 120 minutes), b) written elaboration of contents equivalent to a seminar presentation of approx. 60 to 90 minutes Language of assessment: German, English Registration for the seminar must be made via SB@home at the beginning of the course or as announced by the lecturer in ac-									
				cordance with the specified registration deadlines. Some seminars or workshops might only be open for students with pre- vious knowledge and/or skills in certain areas. Where applicable, details will be specified in the class schedule.									
10-M=SMN-	Semin	nar in Ma	thematic	s in the	Sciences								
W-122-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Cours	es		S (no	information on SWS	6 (weekly contact hours) and course language availa	ble)						
	Metho	od of asse	essment	At the beginning of the course, the lecturer will choose one or two of the following methods of assessment: a) seminar presen- tation (approx. 60 to 120 minutes), b) written elaboration of contents equivalent to a seminar presentation of approx. 60 to 90 minutes Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, cour- se offered on demand or every four semesters. Language of assessment: German, English									
	other prerequisites			Registration for the seminar must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Some seminars or workshops might only be open for students with pre- vious knowledge and/or skills in certain areas. Where applicable, details will be specified in the class schedule.									

10-M=SOP-	Semina	eminar in Optimization											
T-102-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S (no	information on SWS	(weekly contact ho	urs) and course language availa	ble)					
	Methoo	d of asso	essment	At the tation minut Asses se off Langu	beginning of the cc (approx. 60 to 120 es sment offered: Asse ered on demand or age of assessment:	ourse, the lecturer wi minutes), b) written essment offered in th every four semesters German, English	ll choose one or two of the follo elaboration of contents equival ne semester in which the course	wing methods c ent to a semina is offered and i	of assessment: a) seminar presen- r presentation of approx. 60 to 90 in the subsequent semester, cour-				
	other p	rerequi	sites	Regist corda vious	Registration for the seminar must be made via SB@home at the beginning of the course or as announced by the lecturer in a cordance with the specified registration deadlines. Some seminars or workshops might only be open for students with pre- rious knowledge and/or skills in certain areas. Where applicable, details will be specified in the class schedule.								
Learning by Teachi	ng Math	ematics	5										
10-M=EL-	Learnir	ng by te	aching M	athema	atics 1		_						
T1-102-m01	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		Ü (no	information on SWS	6 (weekly contact ho	urs) and course language availa	ble)					
	Method of assessment			practi Langu	cal examination (ap age of assessment:	prox. 90 minutes) German, English							
Compulsory Electiv	es Phys	ics											
Solid State Physics	;												
11-TFK-092-m01	Theore	tical So	lid State	Physic	5								
	ECTS	8	Duratio	<u>1</u>	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		R + V	(no information on S	SWS (weekly contact	hours) and course language av	ailable)					
	Methoo	d of asso	essment	a) wri prox. to 10 Asses nound 2009. Langu	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 30 to pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) anguage of assessment: German English								
	other p	orerequi	sites	Certai tive d on to the le sessn ficatio	n prerequisites mus etails at the beginni assessment. If stud cturer will put their nent in the current o n for admission to a	at be met to qualify f ing of the course. Re ents have obtained registration for asses r in the subsequent assessment anew.	or admission to assessment. Th gistration for the course will be he qualification for admission t ssment into effect. Students wh semester. For assessment at a l	e lecturer will ir considered a de to assessment c o meet all prere ater date, stude	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-				

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11-TFK2-111-m01	Theore	tical So	lid State	Physic	5 2								
	ECTS	8	Duratio	n	1 semester	r	Method of grading	numerical grad	de	Modul level	graduate		
	Course	es	_	V + R	(no information	on SW	VS (weekly contact	hours) and cou	ırse language ava	ailable)			
	Metho	d of ass	essment	a) wri prox. to 10 Asses nound 2009 Langu	tten examination 30 minutes per pages, time to c ssment offered: 1 ced in due form uage of assessm	n (app candic omple When under ent: G	orox. 90 minutes) o date, for modules ete: 1 to 4 weeks) o and how often ass observance of Sec German, English	r b) oral examir vith less than 4 r d) presentatio essment will be tion 32 Subsec	nation of one can ECTS credits app on/seminar prese e offered depends tion 3 ASPO (gen	didate each or prox. 20 minute ntation (approx s on the metho eral academic a	oral examination in groups (ap- s) or c) project report (approx. 8 ‹. 30 minutes) d of assessment and will be an- and examination regulations)		
	other p	orerequi	sites	Certain prerequisites must be met to quality for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									
11-TSL-092-m01	Theory	heory of Superconduction											
	ECTS	5	Duratio	n	1 semester	Ν	Method of grading	numerical grad	de	Modul level	graduate		
	Course	s		R + V	(no information	on SW	VS (weekly contact	hours) and cou	ırse language ava	ailable)			
	Metho	d of asso	essment	a) wri prox. to 10 Asses nound 2009 Langu	tten examination 30 minutes per pages, time to c ssment offered: ced in due form uage of assessm	n (app candic omple When under	orox. 90 minutes) o date, for modules ete: 1 to 4 weeks) o and how often ass observance of Sec German, English	r b) oral examir vith less than 4 r d) presentatio essment will be tion 32 Subsec	nation of one can ECTS credits app on/seminar prese e offered depends tion 3 ASPO (gen	didate each or prox. 20 minute ntation (approx s on the metho leral academic a	oral examination in groups (ap- s) or c) project report (approx. 8 k. 30 minutes) d of assessment and will be an- and examination regulations)		
	other p	prerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									

11-RMFT-102-m01	Renormalization Group Methods in Field Theory												
	ECTS	6	Duratior	า	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	es		V + R	(no information on S	SWS (weekly contact hours) and course langua	age available)						
	Metho	d of ass	essment	prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other p	orerequi	sites	Certai tive d on to the le sessn ficatio	n prerequisites mus etails at the beginn assessment. If stud cturer will put their nent in the current o on for admission to	st be met to qualify for admission to assessme ing of the course. Registration for the course w lents have obtained the qualification for admis registration for assessment into effect. Studer or in the subsequent semester. For assessment assessment anew.	ent. The lecturer will will be considered a ssion to assessment nts who meet all pre it at a later date, stud	inform students about the respec- declaration of will to seek admissi- over the course of the semester, requisites will be admitted to as- dents will have to obtain the quali-					
11-RNT-092-m01	Renorr	nalizatio	on Theory	,									
	ECTS	6	Duratior	1	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	s		R + V	(no information on S	SWS (weekly contact hours) and course langua	age available)						
	Metho	d of ass	essment	a) wri prox. to 10 Asses nound 2009. Langu	tten examination (a 30 minutes per can pages, time to comp sment offered: Whe ced in due form und hage of assessment:	pprox. 90 minutes) or b) oral examination of o didate, for modules with less than 4 ECTS cred plete: 1 to 4 weeks) or d) presentation/semina en and how often assessment will be offered d ler observance of Section 32 Subsection 3 ASP : German, English	one candidate each o dits approx. 20 minu ar presentation (appr lepends on the meth PO (general academi	or oral examination in groups (ap- tes) or c) project report (approx. 8 ox. 30 minutes) od of assessment and will be an- c and examination regulations)					
	other p	prerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									

11-QVTP-092-m01	Many Body Quantum Theory											
	ECTS	8	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Cours	ses		R + V	(no information on S	SWS (weekly contact hours) and course languag	e available)					
	Meth	od of ass	essment	a) writ prox. to 10 Asses nound 2009. Langu	prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other	prerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-RMS-092-m01	Relat	ivistic Eff	ects in M	esosco	pic Systems							
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Cours	ses		R + V	(no information on S	SWS (weekly contact hours) and course languag	e available)					
	Meth	od of ass	essment	a) writ prox. to 10 Asses nounc 2009. Langu	tten examination (a 30 minutes per can pages, time to comp sment offered: Whe ced in due form und age of assessment:	pprox. 90 minutes) or b) oral examination of one didate, for modules with less than 4 ECTS credits olete: 1 to 4 weeks) or d) presentation/seminar p en and how often assessment will be offered dep ler observance of Section 32 Subsection 3 ASPO : German, English	e candidate each or s approx. 20 minute presentation (appro pends on the metho (general academic	oral examination in groups (ap- es) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be an- and examination regulations)				
	other	prerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								

11-EEW-102-m01	Electron Electron Interaction												
	ECTS	4	Duratior	า	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	es		V + R	(no information on S	SWS (weekly contact hours) and course language av	ailable)						
	Metho	d of ass	essment	a) wri prox. to 10 Asses nound 2009. Langu	tten examination (ap 30 minutes per cano pages, time to comp sment offered: Whe ced in due form unde age of assessment:	oprox. 90 minutes) or b) oral examination of one can didate, for modules with less than 4 ECTS credits ap olete: 1 to 4 weeks) or d) presentation/seminar present n and how often assessment will be offered dependence er observance of Section 32 Subsection 3 ASPO (get German, English	ndidate each or prox. 20 minute entation (approx ds on the metho neral academic a	oral examination in groups (ap- s) or c) project report (approx. 8 ‹. 30 minutes) d of assessment and will be an- and examination regulations)					
	other	orerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									
11-FTFK-112-m01	Field Theory in Solid State Physics												
	ECTS	8	Duratior	1	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	es		V + R	(no information on S	SWS (weekly contact hours) and course language av	ailable)						
	Metho	d of ass	essment	a) wri prox. to 10 Asses nound 2009.	tten examination (ap 30 minutes per cano pages, time to comp sment offered: Whe ced in due form undo	oprox. 90 minutes) or b) oral examination of one cal didate, for modules with less than 4 ECTS credits ap olete: 1 to 4 weeks) or d) presentation/seminar present n and how often assessment will be offered dependent er observance of Section 32 Subsection 3 ASPO (get	ndidate each or prox. 20 minute entation (appro) ds on the metho neral academic a	oral examination in groups (ap- s) or c) project report (approx. 8 ‹. 30 minutes) d of assessment and will be an- and examination regulations)					
	other	orerequi	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									

Astro Physics and Particle Physics												
11-QM2-092-m01	Quanti	um Mech	nanics II									
	ECTS	8	Duratior	۱	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	es		R + V ((no information on S	SWS (weekly contact hours) and course language av	ailable)					
	Metho	d of asse	essment	a) writ prox. to 10 Asses nound 2009. Langu	tten examination (a 30 minutes per can pages, time to comp sment offered: Whe ced in due form und hage of assessment:	pprox. 90 minutes) or b) oral examination of one can didate, for modules with less than 4 ECTS credits ap olete: 1 to 4 weeks) or d) presentation/seminar present and how often assessment will be offered dependent er observance of Section 32 Subsection 3 ASPO (gen er German, English	ndidate each or prox. 20 minute entation (approx ls on the metho neral academic	oral examination in groups (ap- s) or c) project report (approx. 8 k. 30 minutes) d of assessment and will be an- and examination regulations)				
	other p	orerequis	sites	Certain prerequisites must be met to quality for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-RTT-092-m01	Theory	Theory of Relativity										
	ECTS	6	Duratior	۱	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	es		R + V	(no information on S	SWS (weekly contact hours) and course language av	ailable)					
	Metho	d of asse	essment	a) writ prox. to 10 J Asses nounc 2009. Langu	tten examination (a 30 minutes per can pages, time to comp sment offered: Whe ced in due form und hage of assessment:	pprox. 90 minutes) or b) oral examination of one cal didate, for modules with less than 4 ECTS credits ap olete: 1 to 4 weeks) or d) presentation/seminar pres- en and how often assessment will be offered depend er observance of Section 32 Subsection 3 ASPO (gen e German, English	ndidate each or prox. 20 minute entation (approz ls on the metho neral academic	oral examination in groups (ap- s) or c) project report (approx. 8 k. 30 minutes) d of assessment and will be an- and examination regulations)				
	other prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								

11-ART-112-m01	General Theory of Relativity													
	ECTS	4	Duratior	ı	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	s		V + R	(no information on S	WS (weekly contact	hours) and course language ava	ailable)						
	Methoo	l of asse	essment	a) writ prox. to 10 Asses nounc 2009.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each of oral examination in groups (approx. 30 minutes) er candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.									
	other p	rerequis	sites	Certai tive de on to the lee sessm ficatio	n prerequisites mus etails at the beginni assessment. If stude cturer will put their r nent in the current of on for admission to a	t be met to qualify for ng of the course. Reg ents have obtained t egistration for asses r in the subsequent s assessment anew.	or admission to assessment. The gistration for the course will be c he qualification for admission to sment into effect. Students who semester. For assessment at a la	e lecturer will in considered a de o assessment o o meet all prered ater date, stude	form students about the respec- claration of will to seek admissi- ver the course of the semester, quisites will be admitted to as- nts will have to obtain the quali-					
11-SRT-112-m01	Special Theory of Relativity													
	ECTS 4 Duratio		1	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Course	S		V + R (no information on SWS (weekly contact hours) and course language available)										
	Methoo	l of asse	essment	a) writ prox. to 10 Asses nounc 2009.	tten examination (ap 30 minutes per canc bages, time to comp sment offered: Whe red in due form unde	oprox. 90 minutes) o lidate, for modules v lete: 1 to 4 weeks) of n and how often ass er observance of Sec	r b) oral examination of one can vith less than 4 ECTS credits app r d) presentation/seminar prese essment will be offered depends tion 32 Subsection 3 ASPO (gen	didate each or prox. 20 minute ntation (approx s on the method eral academic a	oral examination in groups (ap- s) or c) project report (approx. 8 k. 30 minutes) d of assessment and will be an- and examination regulations)					
	other p	rerequis	sites	Certai tive de on to the lee sessm ficatio	n prerequisites mus etails at the beginni assessment. If stude cturer will put their r nent in the current on for admission to a	t be met to qualify for ng of the course. Reg ents have obtained t egistration for asses in the subsequent sussessment anew.	or admission to assessment. The gistration for the course will be c he qualification for admission to sment into effect. Students who semester. For assessment at a la	e lecturer will in considered a de o assessment o o meet all prerec ater date, stude	form students about the respec- claration of will to seek admissi- ver the course of the semester, quisites will be admitted to as- nts will have to obtain the quali-					

11-GRT-092-m01	Group ⁻	Group Theory												
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		R + V	(no information on S	SWS (weekly contact	hours) and course language av	vailable)						
	Methoo	d of asse	essment	a) writ prox. to 10 Asses nounc 2009. Langu	tten examination (ap 30 minutes per cano pages, time to comp sment offered: Whe ced in due form und hage of assessment:	oprox. 90 minutes) o lidate, for modules v lete: 1 to 4 weeks) o n and how often ass er observance of Sec German, English	or b) oral examination of one ca with less than 4 ECTS credits ap r d) presentation/seminar pres essment will be offered depend ction 32 Subsection 3 ASPO (ge	ndidate each or prox. 20 minute entation (approz ds on the metho neral academic	oral examination in groups (ap- es) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be an- and examination regulations)					
	other p	rerequis	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.										
11-RQFT-092-m01	Relativistical Quantumfield Theory													
	ECTS	8	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		R + V	(no information on S	SWS (weekly contact	hours) and course language av	ailable)						
	Methoo	d of asse	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English										
	other p	rerequis	sites	Certai tive d on to the le sessm ficatio	n prerequisites mus etails at the beginni assessment. If stude cturer will put their r nent in the current o on for admission to a	t be met to qualify for ng of the course. Reg ents have obtained t registration for asses r in the subsequent assessment anew.	or admission to assessment. The gistration for the course will be the qualification for admission assment into effect. Students whe semester. For assessment at a	e lecturer will ir considered a de to assessment c o meet all prere later date, stude	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-					

11-QFT2-092-m01	Quanti	um Field	Theory II								
	ECTS	6	Duration	า	1 semester	Me	thod of grading	g numerical	grade	Modul level	graduate
	Course	es		R + V	(no information	on SWS	(weekly contac	t hours) and	course language ava	ailable)	
	Metho	d of ass	essment	prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other p	orerequi	sites	Certain prerequisites must be met to quality for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							
11-TPS-092-m01	Particl	e Physic	s (Standa	ard Mo	del)						
	ECTS	8	Duration	1	1 semester	Me	thod of grading	g numerical	grade	Modul level	graduate
	Course	s		R + V	(no information	on SWS	(weekly contac	t hours) and	course language ava	ailable)	
	Metho	d of asso	essment	a) writ prox. to 10 Asses nound 2009. Langu	tten examinatior 30 minutes per o pages, time to co sment offered: V ced in due form u age of assessme	n (approx candidat omplete: Vhen and under ob ent: Gerr	 Go minutes) for modules to 4 weeks) how often as servance of Seman, English 	or b) oral exa with less tha or d) present sessment wil oction 32 Sub	amination of one can an 4 ECTS credits app ation/seminar prese Il be offered depend section 3 ASPO (gen	ndidate each or prox. 20 minute entation (approx s on the metho neral academic a	oral examination in groups (ap- s) or c) project report (approx. 8 k. 30 minutes) d of assessment and will be an- and examination regulations)
	other p	prerequi	sites	Certai tive d on to the le sessm ficatio	in prerequisites in etails at the beging assessment. If s cturer will put the nent in the current on for admission	must be inning of tudents eir regist nt or in t to asses	met to qualify the course. Re have obtained tration for asse he subsequent ssment anew.	for admission egistration fo the qualifica essment into semester. Fo	n to assessment. The r the course will be o tion for admission to effect. Students who or assessment at a la	e lecturer will in considered a de o assessment o o meet all prere ater date, stude	form students about the respec- claration of will to seek admissi- ver the course of the semester, quisites will be admitted to as- nts will have to obtain the quali-

11-TEP-092-m01	Theoretical Elementary Particle Physics										
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		R + V	no information on S	SWS (weekly contact	hours) and course language av	ailable)	·		
	Metho	od of ass	essment	prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other prerequisites			Certai tive d on to the le sessm ficatio	Certain prerequisites must be met to quality for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.						
11-SUS-092-m01	Super	symmeti	y I and II								
	ECTS 6 Duration		n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V + R	(no information on S	SWS (weekly contact	hours) and course language av	ailable)				
	Method of assessment		essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other prerequisites		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-AST-092-m01	Theor	etical As	trophysic	S							
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		R + V	(no information on S	SWS (weekly contact	hours) and course language av	ailable)	· · · · · · · · · · · · · · · · · · ·		
	Metho	d of ass	essment	writte	n examination (app	rox. 120 minutes)					

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11-MAS-111-m01	Moder	n Astrop	hysics								
	ECTS	4	Duratior	1 I	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V + R ((no information on S	SWS (weekly contact hours) and course language	e available)				
	Metho	d of asse	essment	prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other p	orerequis	sites	Certain prerequisites must be met to quality for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							
11-AKM-092-m01	Cosmo	logy									
	ECTS	6	Duratior	า	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		R + V (no information on SWS (weekly contact hours) and course language available)							
	Metho	d of asse	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English							
	other p	prerequis	ites	Certai tive de on to a the lee sessm ficatio	n prerequisites mus etails at the beginni assessment. If stude cturer will put their r rent in the current o n for admission to a	It be met to qualify for admission to assessment ng of the course. Registration for the course will ents have obtained the qualification for admissi registration for assessment into effect. Students r in the subsequent semester. For assessment a assessment anew.	t. The lecturer will in be considered a de on to assessment o who meet all prere it a later date, stude	form students about the respec- eclaration of will to seek admissi- over the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-			

11-EPP-092-m01	Introd	uction to	Plasmap	hysics	5					
	ECTS	6	Duratio	ı	1 semester	Method of grading numerical grade	Modul level	graduate		
	Cours	es		V + R	(no information on S	SWS (weekly contact hours) and course language a	available)			
	Metho	od of asse	essment	a) writ prox. to 10 Asses nounc 2009. Langu	tten examination (aj 30 minutes per cano pages, time to comp sment offered: Whe ced in due form und age of assessment:	pprox. 90 minutes) or b) oral examination of one of didate, for modules with less than 4 ECTS credits a olete: 1 to 4 weeks) or d) presentation/seminar pre en and how often assessment will be offered depe er observance of Section 32 Subsection 3 ASPO (g c German, English	andidate each or approx. 20 minute esentation (appro nds on the metho general academic	oral examination in groups (ap- s) or c) project report (approx. 8 x. 30 minutes) d of assessment and will be an- and examination regulations)		
	other	prerequis	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.						
11-APL-092-m01	Plasm	a-Astrop	hysics							
	ECTS	6	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate		
	Cours	es		R + V	(no information on S	SWS (weekly contact hours) and course language a	available)			
	Metho	od of asse	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English						
	other	prerequis	sites	Language of assessment: German, English Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.						

11-NMA-111-m01	Compu	Computational Astrophysics												
	ECTS	6	Duration	1	1 semester	Method of grading	numerical grade	N	Aodul level	graduate				
	Course	S		V + R	(no information o	n SWS (weekly contact l	nours) and course lang	guage availa	able)					
	Metho	d of ass	essment	prox. 30 minutes per candidate) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentati- on/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English										
	other p	rerequi	sites	Certain prerequisites must be met to quality for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.										
11-ATT-111-m01	Concep	ots of Th	eoretical	Astrop	particle physics									
	ECTS	4	Duration		1 semester	Method of grading	numerical grade	N	Aodul level	graduate				
	Course	S		V + R	(no information o	n SWS (weekly contact l	nours) and course lang	guage availa	able)					
	Metho	d of asso	essment	a) wri prox. to 10 Asses nounc 2009.	tten examination 30 minutes per ca pages, time to co ssment offered: W ced in due form u	(approx. 90 minutes) or andidate, for modules w mplete: 1 to 4 weeks) or /hen and how often asse nder observance of Sect	b) oral examination of ith less than 4 ECTS cr d) presentation/semin essment will be offered ion 32 Subsection 3 A	of one candi redits appro inar present d depends c ASPO (gener	date each or bx. 20 minute cation (approx on the method al academic a	oral examination in groups (ap- s) or c) project report (approx. 8 ‹. 30 minutes) d of assessment and will be an- and examination regulations)				
	other prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.										

11-QSG-102-m01	Quanti	um Loop	Gravity										
	ECTS	4	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	!S		V + S	(no information on S	SWS (weekly contact hours) and course language	available)						
	Metho	d of ass	essment	a) wri	tten examination (a	pprox. 90 minutes) or							
				b) ora	l examination of on	e candidate each or oral examination in groups (approx. 30 minute	s per candidate, for modules with					
				less ti	ian 4 ECIS credits a	approx. 20 minutes) or 8 to 10 pages, time to complete: 1 to 4 weeks) or							
				d) pre	sentation/seminar	presentation (approx. 30 minutes)							
				Language of assessment: German, English									
				Asses	Assessment offered: When and how often assessment will be offered depends on the method of assessment and will nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regular								
				nound	ed in due form und	er observance of Section 32 Subsection 3 ASPO (general academic	and examination regulations)					
	othorr	roroqui	citoc	2009. Cortai	n proroquisitos mus	at he mot to qualify for admission to assessment	The locturer will i	nform students about the respect					
		r prerequisites Certain prerequisites must be met to quality for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi-											
				on to	assessment. If stud	ents have obtained the qualification for admissio	on to assessment	over the course of the semester,					
				the le	cturer will put their	registration for assessment into effect. Students	who meet all prere	equisites will be admitted to as-					
				sessn	ient in the current o	or in the subsequent semester. For assessment at	a later date, stud	ents will have to obtain the quali-					
Complex Systems	Quantu	mcontre	and Rio	nhysic									
11-PKS-002-m01	Physic	s of Cor	nnlex Svs	toms	.								
11-1 K5-092-1101	FCTS	6	Duration	1 	1 comoctor	Method of grading numerical grade	Modul Javal	graduate					
	Course		Duratio		no information on 9	SWS (wookly contact hours) and course language		graduate					
	Motho	doface	occmont	$(\mathbf{x} + \mathbf{v})$		sws (weekly contact hours) and course language	available)	r oral oxamination in ground (an					
	Metho	u 01 ass	essment	brox.	so minutes per can	didate, for modules with less than μ FCTS credits	approx. 20 minut	es) or c) project report (approx, 8					
				to 10	pages, time to comp	olete: 1 to 4 weeks) or d) presentation/seminar p	resentation (appro	x. 30 minutes)					
				Asses	sment offered: Whe	en and how often assessment will be offered dep	ends on the metho	od of assessment and will be an-					
				nound	ed in due form und	er observance of Section 32 Subsection 3 ASPO (general academic	and examination regulations)					
				2009. Langi	age of assessment.	German English							
	other r	rerequi	sites	Certai	n prerequisites mus	st be met to qualify for admission to assessment	The lecturer will i	nform students about the respec-					
	tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admiss												
		on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester,											
				the le	cturer will put their	registration for assessment into effect. Students	who meet all prere	equisites will be admitted to as-					
				sessn	ient in the current o	or in the subsequent semester. For assessment at assessment anew	a later date, stud	ents will have to obtain the quali-					
				neune									

11-QIC-092-m01	Quantun	n Infor	mation ar	nd Qua	ntum Computing							
	ECTS 4	5	Duration	ו	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			R + V	(no information on	SWS (weekly contact hours) and course langua	ge available)					
	Method	of asse	essment	prox. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other pre	erequis	sites	Certai tive de on to the le sessm ficatio	n prerequisites mu etails at the beginn assessment. If stuc cturer will put their nent in the current o n for admission to	ist be met to qualify for admission to assessmen ning of the course. Registration for the course wi dents have obtained the qualification for admiss registration for assessment into effect. Student or in the subsequent semester. For assessment assessment anew.	nt. The lecturer will in ill be considered a de sion to assessment o ts who meet all prere at a later date, stude	nform students about the respec- eclaration of will to seek admissi- over the course of the semester, equisites will be admitted to as- ents will have to obtain the quali-				
Oberseminar												
11-0SM-122-m01	Advance	d Sem	inar Math	nematical Physics								
	ECTS	4	Duration	<u>ו</u>	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			S (no	information on SW	S (weekly contact hours) and course language a	available)					
	Method	ofasse	essment	talk and discussion (approx. 30 to 45 minutes) Language of assessment: German, English								
Compulsory Electiv	es Works	hops a	nd Curre	nt Topi	cs							
11-AG-MMDG-122-	Study G	roup M	odern Di	ferent	al Geometry							
m01	ECTS :	10	Duration	ו	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			S (no	information on SW	S (weekly contact hours) and course language a	available)					
	Method	of asse	essment	talk with discussion (approx. 30 to 45 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other pre	erequis	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								

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11-AG-SPG-122-	Study Group Sy	otudy Group Symplectic and Poisson Geometry										
m01	ECTS 10	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (no i	nformation on SWS	(weekly contact hou	irs) and course language availa	ble)					
	Method of asse	essment	Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other prerequis	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									
11-AG-OAD-122-	Study Group O	perator A	lgebra	s and Representation	on Theory							
m01	ECTS 10	Duration	1 I	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (no i	nformation on SWS	(weekly contact hou	ırs) and course language availa	ble)					
	Method of assessment other prerequisites		talk with discussion (approx. 30 to 45 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali-									
11-AG-HAI -122-	Study Group H	onf Algeb	ras									
m01	ECTS 10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (no i	nformation on SWS	(weekly contact hou	irs) and course language availa	ble)	, <u> </u>				
	Method of asse	essment	talk with discussion (approx. 30 to 45 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.									
	other prerequisites		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									
Master's with 1 major Mal	inematical Physics (20	12)				JMU Wurzburg • generated 26-Aug-20	024 • exam. reg. data re	ecora 88 055 - - H 2012 page 40 / 46				

11-AG-KFT-122-m01	Study Group Conformal Field Theory											
	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (no	information on SWS	ς (weekly contact hoι	urs) and course language availa	ble)					
	Method of asse	essment	talk with discussion (approx. 30 to 45 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other prerequis	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									
11-AG-STM-122-	Study Group St	tatistical	Mecha	nics								
m01	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (no	information on SWS	i (weekly contact hoι	ırs) and course language availa	ble)					
	Method of asse	essment 	Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec-									
			tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									
11-AG-QFT-122-	Study Group Q	uantum F	ield Th	eory								
m01	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (no	information on SWS	i (weekly contact hoι	ırs) and course language availa	ble)					
	Method of asse	ls on the metho neral academic	d of assessment and will be an- and examination regulations)									
	other prerequisites		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.									
Master's with 1 major Ma	thematical Physics (20	12)				JMU Würzburg • generated 26-Aug-20	024 • exam. reg. data r	ecord 88 b55 - - H 2012 page 41 / 46				

11-AG-RGE-122-	Study Group	tudy Group Riemannian Geometry										
m01	ECTS 10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (no	information on SWS	(weekly contact hou	rs) and course language availa	able)					
	Method of a	ssessment	talk a Asses noun 2009 Langu	Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English								
	other prereq	juisites	Certai tive d on to the le sessn ficatio	tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment at a later date.								
11-AG-MPH-122-	Study Group	o Mathemat	ical Ph	ysics				· · · · ·				
mor	ECIS 10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (no	information on SWS	weekly contact hou	rs) and course language availa	ible)					
		<u>ssessment</u>	Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English									
	other prereq	juisites	Certai tive d on to the le sessn ficatio	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the resp tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admi on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to a sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qu fication for admission to assessment anew.								
10-M=GAL-	Study Group	o Algebra					-					
G-102-m01	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V + S	(no information on S	SWS (weekly contact	hours) and course language av	/ailable)					
	Method of a	ssessment	At the beginning of the course, the lecturer will choose one or two of the following methods of assessment: a) seminar presen- tation (approx. 60 to 120 minutes), b) written elaboration of contents equivalent to a seminar presentation of approx. 60 to 120 minutes, c) written examination (approx. 90 to 120 minutes), d) oral examination of one candidate each (approx. 20 minu- tes), e) oral examination in groups (groups of 2, approx. 30 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, cour- se offered on demand or every four semesters. Language of assessment: German, English									
	other prereq	juisites	Registration for the seminar must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Some seminars or workshops might only be open for students with pre- vious knowledge and/or skills in certain areas. Where applicable, details will be specified in the class schedule.									

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10-M=G-	Study Group Discrete Mathematics									
DIM-102-m01	ECTS 10 Duration			۱	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	es	·	V + S	+ S (no information on SWS (weekly contact hours) and course language available)					
	Metho	d of asso	essment	At the tation 120 m tes), e Langu	At the beginning of the course, the lecturer will choose one or two of the following methods of assessment: a) seminar presen- tation (approx. 60 to 120 minutes), b) written elaboration of contents equivalent to a seminar presentation of approx. 60 to 120 minutes, c) written examination (approx. 90 to 120 minutes), d) oral examination of one candidate each (approx. 20 minu- tes), e) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English					
	other p	orerequi	sites	Registration for the seminar must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Some seminars or workshops might only be open for students with pre- vious knowledge and/or skills in certain areas. Where applicable, details will be specified in the class schedule.						
10-M=GDS-	Study	Group D	ynamical	Syste	ms and Control					
R-102-m01	ECTS	10	Duration	۱	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	es		V + S	V + S (no information on SWS (weekly contact hours) and course language available)					
	Metho	u 01 assi	essment	tation (approx. 60 to 120 minutes), b) written elaboration of contents equivalent to a seminar presentation of approx. 60 to 120 minutes, c) written examination (approx. 90 to 120 minutes), d) oral examination of one candidate each (approx. 20 minu- tes), e) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English						
	other p	orerequi	sites	Regis corda vious	tration for the semir nce with the specifi knowledge and/or	nar must be made via SB@home at the beginning o ed registration deadlines. Some seminars or works skills in certain areas. Where applicable, details wi	of the course or a shops might only ll be specified in	s announced by the lecturer in ac- be open for students with pre- the class schedule.		
10-M=GFT-	Study	Group C	omplex A	nalysi	5					
H-102-m01	ECTS	10	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	es		V + S	(no information on S	SWS (weekly contact hours) and course language a	vailable)			
	Metho	d of asso	essment	At the beginning of the course, the lecturer will choose one or two of the following methods of assessment: a) seminar presen- tation (approx. 60 to 120 minutes), b) written elaboration of contents equivalent to a seminar presentation of approx. 60 to 120 minutes, c) written examination (approx. 90 to 120 minutes), d) oral examination of one candidate each (approx. 20 minu- tes), e) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English						
	other p	orerequi	sites	Regis corda vious	tration for the semir nce with the specifi knowledge and/or	nar must be made via SB@home at the beginning o ed registration deadlines. Some seminars or works skills in certain areas. Where applicable, details wi	of the course or a hops might only ll be specified in	s announced by the lecturer in ac- be open for students with pre- the class schedule.		

10-M=GGM-	Study	Group G	eometry a	ind To	pology					
T-102-m01	ECTS 10 Duration			ı	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	es		V + S	+ S (no information on SWS (weekly contact hours) and course language available)					
	Metho	od of asso	essment	At the beginning of the course, the lecturer will choose one or two of the following methods of assessment: a) seminar presen- tation (approx. 60 to 120 minutes), b) written elaboration of contents equivalent to a seminar presentation of approx. 60 to 120 minutes, c) written examination (approx. 90 to 120 minutes), d) oral examination of one candidate each (approx. 20 minu- tes), e) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English						
	other	other prerequisites			Registration for the seminar must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Some seminars or workshops might only be open for students with pre- vious knowledge and/or skills in certain areas. Where applicable, details will be specified in the class schedule.					
10-M=G-	Study	Group N	easure ar	nd Inte	gral					
MUI-102-m01	ECTS 10 Duratio			1	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	es		V + S	/ + S (no information on SWS (weekly contact hours) and course language available)					
	metrio		essment	tation (approx. 60 to 120 minutes), b) written elaboration of contents equivalent to a seminar presentation of approx. 60 to 120 minutes, c) written examination (approx. 90 to 120 minutes), d) oral examination of one candidate each (approx. 20 minu- tes), e) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English						
	other (prerequi	sites	Regist corda vious	tration for the semin nce with the specifi knowledge and/or	nar must be made via SB@home at the begin ed registration deadlines. Some seminars or skills in certain areas. Where applicable, deta	ning of the course or as workshops might only ails will be specified in	s announced by the lecturer in ac- be open for students with pre- the class schedule.		
10-M=GN-	Study	Group N	umerical I	Mathe	matics and Applied	Analysis				
MA-102-m01	ECTS	10	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	es		V + S	(no information on	SWS (weekly contact hours) and course langu	uage available)			
	Metho	d of ass	essment	At the beginning of the course, the lecturer will choose one or two of the following methods of assessment: a) seminar presen- tation (approx. 60 to 120 minutes), b) written elaboration of contents equivalent to a seminar presentation of approx. 60 to 120 minutes, c) written examination (approx. 90 to 120 minutes), d) oral examination of one candidate each (approx. 20 minu- tes), e) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English						
	other	prerequi	sites	Regist corda vious	tration for the semin nce with the specifi knowledge and/or	nar must be made via SB@home at the begin ed registration deadlines. Some seminars or skills in certain areas. Where applicable, deta	ning of the course or as workshops might only ails will be specified in	s announced by the lecturer in ac- be open for students with pre- the class schedule.		

10-M=GRO-	Study Group Robotic, Optimization and Control Theory									
K-102-m01	ECTS 10 Duration			ı	1 semester	Method of grading numerical grad	de	Modul level	graduate	
	Course	es		V + S	no information on	SWS (weekly contact hours) and cou	rse language av	ailable)		
	Metho	d of ass	essment	At the tation 120 m tes), e	At the beginning of the course, the lecturer will choose one or two of the following methods of assessment: a) seminar presen- tation (approx. 60 to 120 minutes), b) written elaboration of contents equivalent to a seminar presentation of approx. 60 to 120 minutes, c) written examination (approx. 90 to 120 minutes), d) oral examination of one candidate each (approx. 20 minu- tes), e) oral examination in groups (groups of 2, approx. 30 minutes)					
	other prerequisites			Regis corda vious	Registration for the seminar must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Some seminars or workshops might only be open for students with pre- rious knowledge and/or skills in certain areas. Where applicable, details will be specified in the class schedule.					
10-M=GMN-	Study	Group N	Aathemati	cs in t	he Sciences			1		
W-122-m01	ECTS	10	Duration	ı	1 semester	Method of grading numerical grad	de	Modul level	graduate	
	Course	es		V + S	(no information on	SWS (weekly contact hours) and cou	rse language av	ailable)		
				tation (approx. 60 to 120 minutes), b) written elaboration of contents equivalent to a seminar presentation of approx. 60 to 120 minutes, c) written examination (approx. 90 to 120 minutes), d) oral examination of one candidate each (approx. 20 minutes), e) oral examination in groups of 2 candidates (approx. 30 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, course offered on demand or every four semesters. Language of assessment: German, English						
	other prerequisites		sites	Regis corda vious	tration for the semi nce with the specifi knowledge and/or	nar must be made via SB@home at t ed registration deadlines. Some sem skills in certain areas. Where applica	he beginning of ninars or worksh able, details will	the course or as ops might only be specified in	s announced by the lecturer in ac- be open for students with pre- the class schedule.	
10-M=GZTH-102-	Study	Group N	lumber Th	eory						
m01	ECTS	10	Duration	1	1 semester	Method of grading numerical grad	de	Modul level	graduate	
	Course	es		V + S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			At the beginning of the course, the lecturer will choose one or two of the following methods of assessment: a) seminar presen- tation (approx. 60 to 120 minutes), b) written elaboration of contents equivalent to a seminar presentation of approx. 60 to 120 minutes, c) written examination (approx. 90 to 120 minutes), d) oral examination of one candidate each (approx. 20 minu- tes), e) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English						
	other prerequisites			Regis corda vious	tration for the semines of the semines of the specific knowledge and/or semines of the specific semines of the semines of the seminestimation of the seminestima	nar must be made via SB@home at t ed registration deadlines. Some sem skills in certain areas. Where applica	he beginning of ninars or worksh able, details will	the course or as ops might only be specified in	s announced by the lecturer in ac- be open for students with pre- the class schedule.	

11-EXMP5-122-m01	Current Topics in Mathematical Physics								
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses		R (no	information on SWS	(weekly contact hou	rs) and course languag	e available)		
	Method of asse	essment	a) wri prox. on/se Langu	tten examination (ap 30 minutes per cano minar presentation lage of assessment:	oprox. 120 minutes) (didate) or c) project r (approx. 30 minutes) German, English	or b) oral examination o eport (approx. 8 to 10 p)	of one candidate each o bages, time to complete	r oral examination in groups (ap- : 1 to 4 weeks) or d) presentati-	
	other prerequis	sites	Appro	val by examination	committee required.				
11-EXMP6-122-m01	Current Topics	in Mathe	matica	l Physics					
	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses		R (no	information on SWS	(weekly contact hou	rs) and course languag	e available)		
	Method of asse	essment	a) wri prox. on/se Langu	tten examination (ap 30 minutes per cano minar presentation lage of assessment:	oprox. 120 minutes) o didate) or c) project r (approx. 30 minutes) German, English	or b) oral examination o eport (approx. 8 to 10 p)	of one candidate each o ages, time to complete	r oral examination in groups (ap- : 1 to 4 weeks) or d) presentati-	
	other prerequis	sites	Appro	val by examination	committee required.				
11-EXMP7-122-m01	Current Topics in Mathematical Physics								
	ECTS 7	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses		R (no	information on SWS	(weekly contact hou	rs) and course languag	e available)		
	Method of asse	essment	a) wri prox. on/se Langu	tten examination (ap 30 minutes per cance minar presentation age of assessment:	oprox. 120 minutes) (didate) or c) project r (approx. 30 minutes) German, English	or b) oral examination o eport (approx. 8 to 10 p)	of one candidate each o bages, time to complete	r oral examination in groups (ap- : 1 to 4 weeks) or d) presentati-	
	other prerequis	sites	Appro	val by examination	committee required.				
11-EXMP8-122-m01	Current Topics	in Mathe	matica	l Physics				<u>.</u>	
	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses		R (no	information on SWS	(weekly contact hou	rs) and course languag	e available)		
	Method of asse	essment	a) wri [.] prox. prese Langu	tten examination (ap 30 minutes per cand ntation (approx. 30 lage of assessment:	oprox. 120 minutes) (didate) or c) project r minutes) German, English	or b) oral examination o eport (8 to 10 pages, tin	of one candidate each o ne to complete: 1 to 4 w	r oral examination in groups (ap- /eeks) or d) presentation/seminar	
	other prerequis	sites	Appro	val by examination	committee required.				
Thesis (30 ECTS cre	edits)								
11-MA-MP-122-	Master Thesis	Mathema	atical P	hysics					
m01	ECTS 30	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses		no co	urses assigned	·		· · · · · · · · · · · · · · · · · · ·		
	Method of asse	essment	writte Langu	n thesis lage of assessment:	German, English				

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