

Teaching cycle

Module description

Module title					Abbreviation	
Relativ	istic Qı	uantum Field Theory			11-RQFT-161-m01	
Module coordinator Managing Director of the Institute of Theoretical Physics and Astrophysics				Module offered by Faculty of Physics and Astronomy		
						ECTS
8	numei	rical grade				
Duration Module level		Module level	Other prerequisites			
1 semester		graduate				
Conten	ts					
4. Field 5. Scat 6. Gaus 7. Pertu 8. Feyn 9. Qua 10. Rad	I quanti tering tl ge princ urbatior man ru ntum el liative c	heory and S-matrix ciple and interaction n theory les lectrodynamic process corrections	es in Born approximat	ion		
		ning outcomes				
They ki proces standii	now how ses in thing of rac	w to use perturbation the framework of quantition to diative corrections and	theory and how to app tum electrodynamics in the renormalisation.	ly Feynman rules. The n leading order. More	tivistic quantum field theories. ey are able to calculate basics eover, they have a basic under-	
		umber of weekly contact hou	rs, language — if other than G	erman)		
V (4) + Module		t in: German or English	1			
Metho	d of ass			, examination offered — if no	ot every semester, information on whether	
or oral pages) If a wri- stead t of asse nation Assess Langua	examin or pres tten exa ake the essment date at ment o	ation in groups (group sentation/talk (approx amination was chosen form of an oral exami t is changed, the lectu the latest. ffered: In the semeste ssessment: German a	es of 2, approx. 30 min 30 minutes). as method of assessn nation of one candida rer must inform studer	utes per candidate) on ment, this may be cha te each or an oral exa nts about this by four	ndidate each (approx. 30 minutes) or project report (approx. 8 to 10 anged and assessment may insemination in groups. If the method weeks prior to the original examiubsequent semester	
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
240 h						



Module description

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Mathematics (2016)

Master's degree (1 major) Physics (2016)

Master's degree (1 major) Mathematical Physics (2016)

Master's degree (1 major) Computational Mathematics (2016)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)

Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)

Master's degree (1 major) Computational Mathematics (2019)

Master's degree (1 major) Mathematics (2019)

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