

Module appears in

Master's degree (1 major) Physics International (2020)

Module description

Module title				Abbreviation
Renormalization Group and Critical Phenomena				11-CRP-Int-201-m01
Module coordinator			Module offered by	
Managing Dir	rector of the Institute of resics	Theoretical Physics	Faculty of Physics a	and Astronomy
ECTS Meth	Method of grading Only after succ. compl. of module(s)			
6 nume	erical grade			
Duration Module level		Other prerequisites	Other prerequisites	
1 semester graduate				
Contents		`		
4. Phase diag 5. Perturbatio	theory of the renormalization grams and fixed points on-theoretical renormalization	-		
-	rning outcomes			
sics. Underst quantum fiel	anding of the concept of	f the RG flow with resp	ect to effective field	on group (RG) in statistical phy- theories in both statistical and
V (3) + R (1)	number of weekly contact hours	, tanguage in other than de		
Module taugh	nt in: English			
Method of as		uage — if other than German,	examination offered — if no	ot every semester, information on whether
nutes) or c) o prox. 8 to 10 If a written ex stead take th of assessmer nation date a Language of a	ral examination in group pages) or e) presentation was chosen are form of an oral examination tis changed, the lecturative latest. assessment: English offered: In the semester	os (groups of 2, appro n/talk (approx. 30 mir as method of assessm nation of one candidat er must inform studen	x. 30 minutes per car nutes). ent, this may be cha e each or an oral exa ts about this by four	e candidate each (approx. 30 mindidate) or d) project report (apnged and assessment may inmination in groups. If the method weeks prior to the original examinated and semester
Allocation of	places			
Additional in	formation			
Workload				
180 h				
Teaching cyc	le			



Module description

exchange program Physics (2023)

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