

## Module description

Module title Abbreviation					
Electron Electron Interaction					11-EEW-102-m01
Module coordinator				Module offered by	
Managing Director of the Institute of Theoretical Physics				Faculty of Physics and Astronomy	
and Astrophysics				rucuity of Fritzing	and Astronomy
ECTS	S Method of grading Only after succ. compl. of module(s)				
4	nume	rical grade			
Duration		Module level	Other prerequisites	sites	
1 semester gradua		graduate	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective 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 anew.		
Contents					
thod of functional integrals. 7. Renormalisation groups. 8. Consideration of spin. 9. One-dimensional lattice models. 10. Impurities in Luttinger liquids  Intended learning outcomes  The students know the principles of the theoretical description of electron-electron interactions in one dimension.  Courses (type, number of weekly contact hours, language — if other than German)  V + R (no information on SWS (weekly contact hours) and course language available)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
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					
Allocation of places					
Additional information					
Workload					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					



## Module description

## Module appears in

Master's degree (1 major) Physics (2010)

Master's degree (1 major) Physics (2011)

Master's degree (1 major) Nanostructure Technology (2011)

Master's degree (1 major) Nanostructure Technology (2010)

Master's degree (1 major) Mathematical Physics (2012)

Master's degree (1 major) FOKUS Physics (2010)

Master's degree (1 major) FOKUS Physics (2011)

Master's degree (1 major) FOKUS Physics (2006)

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