## Module description

Module title					Abbreviation
Quantum Mechanics					11-QM-092-m01
Module	coord	inator		Module offered by	
Managi and Ast	ng Dire trophys	ector of the Institute of Th sics	eoretical Physics	Faculty of Physics and Astronomy	
ECTS Method of grading		Only after succ. compl. of module(s)			
8 numerical grade					
Duration		Module level	Other prerequisites		
1 semester		undergraduate	Certain prerequisites must be met to qualify for admission to as- sessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be con- sidered a declaration of will to seek admission to assessment. If stu- dents have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for as- sessment into effect. Students who meet all prerequisites will be admit- ted to assessment in the current or in the subsequent semester. For as- sessment at a later date, students will have to obtain the qualification for admission to assessment anew.		
Contents					
Limits of classical physics, Schrödinger equation, mathematical foundations of quantum mechanics, harmonic oscillator, angular momentum and spin, hydrogen atom, many-particle systems					
Intended learning outcomes					
The students have knowledge of the principles of quantum mechanics and the required calculation methods.					
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)					
V + Ü (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)					
written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified) 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 oxamination regulations) 2000					
Allocation of places					
Additional information					
Workload					
Teaching cycle					
Keterred to in LPUI (examination regulations for teaching-degree programmes)					
Module appears in					
Bachelor's degree (1 major) Mathematics (2012) Bachelor's degree (1 major) Mathematics (2013) Bachelor's degree (1 major) Computational Mathematics (2012) Bachelor's degree (1 major) Computational Mathematics (2013)					

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Bachelor's degree (1 major, 1 minor) Physics (Minor, 2010)

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