

Module description

Module title Abb					Abbreviation
Ultrafast spectroscopy and quantum-control					08-PCM4-102-m01
Module		instar		Module offered by	
Module coordinator				• .	
lecturer of the seminar "Ultrakurzzeitspektroskopie and Quantenkontrolle" Institute of Physical and Theoretical Chemistry					
ECTS	Method of grading Only after		Only after succ. con	fter succ. compl. of module(s)	
5 numerical gr		rical grade			
Duration		Module level	Other prerequisites		
1 semester		graduate			
Contents					
This module discusses advanced topics in ultrafast spectroscopy and quantum control. It focuses on ultrashort laser pulses, time-resolved laser spectroscopy and coherent control.					
Intended learning outcomes					
Students are able to describe the generation of ultrashort laser pulses and to characterise them. They can explain the theory of time-resolved laser spectroscopy and name experimental methods. They can describe the principles and applications of quantum control.					
Courses (type, number of weekly contact hours, language — if other than German)					
S + Ü (no information on SWS (weekly contact hours) and course language available)					
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written examination (90 minutes) or oral examination of one candidate each (20 minutes) or talk (30 minutes) Language of assessment: German or English					
Allocation of places					
Additional information					
Workload					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) Chemistry (2010)					
Master's degree (1 major) Mathematics (2012)					
Master's degree (1 major) Computational Mathematics (2012)					

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