

Module appears in

	Julius-M NIVERS ÜRZBI		15 (2.3)	83 0 2	Module description
Module title					Abbreviation
Quantum Information and Quantum Computing					11-QIC-161-m01
Module coordinator				Module offered by	
	ging Dir strophy	ector of the Institute of T sics	heoretical Physics	Faculty of Physics and Astronomy	
ECTS	Meth	od of grading	Only after succ. compl. of module(s)		
6	nume	erical grade	11-QM2 or 11-TFK		
Durati	ation Module level		Other prerequisites		
1 semester		graduate			
Contents					
4. Enta 5. Qua 6. Qua 7. Elen Intend The stu textbo main t quantu	anglementum o intum o intum g nents o ed lear udents ok inte opics o um com	rpretation. The learn how f the lecture include bas oputing arising from deco	che theorems of Kraus outers nce e understanding of qu v to safely handle ten ic mathematical cond	uantum states and d sor products and mu epts of quantum inf	ensity matrices beyond the usual Iltipartite quantum systems. The ormation theory and the limits of
	_	number of weekly contact hours	language — if other than Ge	erman)	
V (3) +		nt in: German or English			
Metho	d of as		age — if other than German,	examination offered — if n	ot every semester, information on whether
or oral pages) If a wri stead	examin or pres tten ex take the	nation in groups (groups sentation/talk (approx. g amination was chosen a e form of an oral examin	of 2, approx. 30 minugo minutes). s method of assessmation of one candidat	utes per candidate) of ent, this may be cha e each or an oral exa	ndidate each (approx. 30 minutes) or project report (approx. 8 to 10 anged and assessment may interpretation in groups. If the method weeks prior to the original examination in groups.

of assessment is changed, the lecturer must inform students about this by four weeks prior to the original exami-

nation date at the latest.				
Assessment offered: In the semester in which the course is offered and in the subsequent semester				
Language of assessment: German and/or English				
Allocation of places				
-				
Additional information				
-				
Workload				
180 h				
Teaching cycle				
-				
Referred to in LPO I (examination regulations for teaching-degree programmes)				



Module description

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

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

Master's degree (1 major) Nanostructure Technology (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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