

Module description

Module title				Abbreviation	
FOKUS Research Module Topological Insulators				11-FM-TI-131-m01	
Module coordinator			Module off	Module offered by	
chairperson of examination committee			Faculty of F	Faculty of Physics and Astronomy	
ECTS Met	hod of grading	Only after suc	Only after succ. compl. of module(s)		
10 num	numerical grade				
Duration Module level		Other prerequ	Other prerequisites		
1 semester graduate					
Contents					
, -			•	al properties. In this research module, we rials on the basis of current research re-	

Intended learning outcomes

The students have special and advanced knowledge of independent scientific work in the field of topological insulators, and are able to reproduce the acquired knowledge, to apply the acquired methods and to summarise a sub-area of the current research area in an oral presentation.

 $\textbf{Courses} \ (\textbf{type}, \, \textbf{number of weekly contact hours, language} - \textbf{if other than German})$

Quantentransport in Halbleiter-Nanostrukturen (Quantum Transport in Semiconductor Nanostructures): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, once a year (summer semester) Kompaktseminar Topologische Isolatoren (Block Taught Seminar Topological Insulators): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (1 to 3 days) held to-

module is creditable for bonus)

wards the end of semester break or at the beginning of the subsequent semester) Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether This module has the following assessment components 1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages) 2. Seminar: talk (approx. 30 to 45 minutes) Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced). Assessment component 1 will be offered once a year in the summer semester; details on when assessment component 2 will be offered to be announced. To pass this module, students must pass both assessment component 1 and assessment component 2. Allocation of places Additional information Workload **Teaching cycle Referred to in LPO I** (examination regulations for teaching-degree programmes) Module appears in Bachelor' degree (1 major) Nanostructure Technology (2010)



Module description

Master's degree (1 major) FOKUS Physics (2010) Master's degree (1 major) FOKUS Physics (2011)

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