

Module description

Module title FOKUS Research Module Theoretical Elementary Particle Physics					Abbreviation	
					11-FM-TEP-092-m01	
Module coordinator				Module offered by		
chairperson of examination committee				Faculty of Physics and Astronomy		
ECTS	Meth	od of grading	Only after succ. co	Only after succ. compl. of module(s)		
12	nume	merical grade				
Duration		Module level	Other prerequisites	Other prerequisites		
1 semester		graduate	11-RQFT	11-RQFT		
Conter	nts	•				
•			•	•	ecialist field of Theoretical Elementa- tion theory and application of Feynma	

Intended learning outcomes

The students have special and advanced knowledge of independent scientific work in the field of Theoretical Elementary Particle Physics. They know the mathematical methods for the description of phenomena of Elementary Particle Physics and understand the structure of the standard model based on symmetry principles and experi-

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

rules, standard model of strong and electroweak interaction of leptons and quarks.

Theoretische Elementarteilchenphysik (Theoretical Elementary Particle Physics): V (4 weekly contact hours) + \ddot{U} / P (2 weekly contact hours), German or English, once a year (summer semester)

mental observations. They are able to summarise the acquired knowledge in an oral presentation.

Kompaktseminar Theoretische Elementarteilchenphysik (Block Taught Seminar Theoretical Elementary Particle Physics): S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (1 to 3 days) held towards 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 module is creditable for bonus)

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)

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

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). 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 1 (examination regulations for teaching-degree programmes) - Module appears in



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