

Module title					Abbreviation
Strong Interaction in Accelerator Experiments					11-WWB-102-m01
Module coordinator				Module offered by	
Managing Director of the Institute of Ap			plied Physics Faculty of Physics and Astronomy		
ECTS Method of grading		Only after succ. compl. of module(s)			
3	nume	rical grade			
Duration		Module level	Other prerequisites		
1 semester		graduate	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					
Asymptomatic freedom/confinement. Hadron production in e+/e- collisions. QCD coherence/interference pheno- mena. QCD Jet simulation. Hadron production in electron-proton collisions. Hadron production in proton-proton collisions.					
Intended learning outcomes					
The students know the basic organisation of QCD processes. They are able to interpret results of accelerator ex- periments. They have knowledge of methods of data analysis, understand the underlying theories and are able to apply them.					
Courses (type, number of weekly contact hours, language — if other than German)					
V + R (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)					
a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) 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 examination regulations) 2009. Language of assessment: German, English					
Allocation of places					
Additional information					
Workload					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					

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Module appears in

Bachelor's degree (1 major) Physics (2010) Bachelor's degree (1 major) Physics (2012) Master's degree (1 major) Physics (2010) Master's degree (1 major) Physics (2011) Master's degree (1 major) FOKUS Physics (2010) Master's degree (1 major) FOKUS Physics (2011) Master's degree (1 major) FOKUS Physics (2006)

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