

Module title		Abbreviation
Strong Interaction in Accelerator Experiments		11-WWB-102-m01
Module coordinator		Module offered by
Managing Director of the Institute of Applied Physics		Faculty of Physics and Astronomy
ECTS	Method of grading	Only after succ. compl. of module(s)
3	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.
Contents		
German contents available but not translated yet.		
Asympt. Freiheit / Confinement. Hadronproduktion in e ⁺ /e ⁻ -Kollisionen. QCD Kohärenz/Interferenz Phänomene. QCD Jet Simulation. Hadronproduktion in Elektron-Proton-Kollisionen. Hadronproduktion in Proton-Proton-Kollisionen		
Intended learning outcomes		
German intended learning outcomes available but not translated yet.		
Die Studierenden kennen den prinzipiellen Ablauf von QCD-Prozessen. Sie sind in der Lage, Ergebnisse von Beschleunigerexperimenten zu interpretieren. Die Studierenden verfügen über Kenntnisse von Techniken für die Analyse von Daten, verstehen die zugrunde liegenden Theorien und können sie praktisch anwenden.		
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		
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Additional information		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor' degree (1 major) Physics (2010)		

Bachelor' 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)