

Module title					Abbreviation
Experimental Particle Physics					11-TPE-Int-201-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)				
6	5 numerical grade				
Duration Module level		Other prerequisites			
1 semester		graduate			
Contents					
Physics with modern particle physics detectors at the LHC and at the Tevatron. Discovery of the Higgs Boson. De- termination of the W boson and Top Quark mass. Measurement of standard model parameters. Search for phy- sics beyond the standard model.					
Intended learning outcomes					
Familiarity with the basic questions studied with a modern particle physics detector, and with modern data ana- lysis techniques in particle physics. Ability to put results into context and to assess their systematic uncertain- ties.					
Courses (type, number of weekly contact hours, language — if other than German)					
V (3) + R (1) Module taught in: English					
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 to 120 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or presentation/talk (approx. 30 minutes). If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: English					
Allocation of places					
Additional information					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) Physics International (2020)					
IMIL Würzburg					

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