



Module title					Abbreviation
Cosmology					11-AKM-Int-201-m01
Module coordinator				Module offered by	
Managing Director of the Institute of Theoretical Physics and Astrophysics				Faculty of Physics and Astronomy	
ECTS Method of grading			Only after succ. compl. of module(s)		
6	numerical grade				
Duration Module level		Module level	Other prerequisites		
1 semester gra		graduate			
Contents					
Expanding Space-Time, Friedmannian Cosmology, Basics of General Relativity, The Early Universe, Inflation, Dark Matter, Primordial Nucleosynthesis, Cosmic Microwave Background, Structure Formation, Galaxies and Galaxy Clusters, Intergalactic Medium, Cosmological Parameters					
Intended learning outcomes					
Basic knowledge of cosmology. Knowledge of the theoretical methods of cosmology and the ability to relate tho- se to observations. Insight into current research topics and is able to work on scientific questions.					
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)					
nutes) or c) oral examination (approx. 90 to 120 minutes) of 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 e) 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. Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester					
Allocation of places					
Additional information					
Workload					
180 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) Physics International (2020)					
exchange program Physics (2023)					
JMU Würzburg • generated 29.03.2024 • Module data record 110478					