Module description

Module title					Abbreviation
Astrophysics					11-A4-072-m01
Module coordinator				Module offered by	
Managi and Ast	ng Dire trophys	ector of the Institute of Th sics	eoretical Physics	Faculty of Physics and Astronomy	
ECTS Method of grading		Only after succ. compl. of module(s)			
6 numerical grade					
Duration		Module level	Other prerequisites		
1 semester		undergraduate	Admission prerequisite to assessment: successful completion of approx. 50% of exercises. Certain prerequisites must be met to qualify for admis- sion to assessment. The lecturer will inform students about the respecti- ve 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 ad- mitted 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					
History of astronomy, coordinates and time measurement, the solar system, size scales in outer space, telesco- pes and detectors, stellar structure, stellar atmospheres, stellar evolution, final stages of stellar evolution, inter- stellar medium, structure of the Milky Way, local universe, expanding space-time, galaxies, active galactic nuclei, large-scale structure of the universe, Friedmann World Models, thermodynamics of the early universe, primordial nucleosynthesis, cosmic microwave background radiation, structure formation, inflation					
physical observations and evaluations. They are able to use these methods to plan and analyse own observati- ons. They know the structure of the universe, e.g. of stars and galaxies and understand the process of their deve- lopment.					
Courses (type, number of weekly contact hours, language — if other than German)					
V + S (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)					
written examination (approx. 120 minutes)					
Allocation of places					
Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.					
Additional information					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Bachelor' degree (1 major) Physics (2007) Bachelor' degree (1 major) Physics (2010) Bachelor' degree (1 major) Physics (2009) Bachelor' degree (1 major) Physics (2012) Bachelor' degree (1 major) Physics (2008)					
Bachelor' degree (1 major) Mathematical Physics (2009)					

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Bachelor' degree (1 major) Mathematical Physics (2012) Bachelor' degree (1 major) Aerospace Computer Science (2011) Master's degree (1 major) Mathematics (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) Computational Mathematics (2012) Bachelor's degree (1 major, 1 minor) Physics (Minor, 2008) Bachelor's degree (1 major, 1 minor) Physics (Minor, 2010)

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