

Module description

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Module title					Abbreviation	
Advan	ced Top	ics in Astrophysics			11-CSAM-Int-201-m01	
Module coordinator				Module offered by		
Managing Director of the Institute of Theoretical Physics and Astrophysics				Faculty of Physics and Astronomy		
ECTS	Meth	od of grading	Only after succ. cor	cc. compl. of module(s)		
6	nume	rical grade				
Duration		Module level	Other prerequisites	ner prerequisites		
1 semester		graduate	Approval from examination committee required.			
Contents						
are rele dynam format	evant to ics, hea ion, as	o the following topics: St ating and cooling proces well as related topics.	ellar structure, star fo	ormation and develo	physics will be conveyed which pment, radiation transport, gas nistry, accretion and jets, galaxy	
Intended learning outcomes						
Acquisition of advanced skills in current topics of astrophysics. Capability to independently get acquainted with current research topics in astrophysics.						
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 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						
Allocation of places						
						
Additional information						
						
Workload						
180 h						
Teaching cycle						
						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Modul	e appea	ars in				
Master	's degr	ee (1 major) Physics Inte	rnational (2020)			
Mastaris dagrae (4 mais) Physics International (2004)						

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Master's degree (1 major) Physics International (2024)