

Module title		Abbreviation
Group Theory		11-GRTM-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	Other prerequisites
1 semester	graduate	Approval from examination committee required.
Contents		
German contents available but not translated yet. Gruppentheorie. Endliche Gruppen. Lie-Gruppen. Lie-Algebren. Darstellungen. Tensoren. Klassifikationstheorem. Anwendungen		
Intended learning outcomes		
German intended learning outcomes available but not translated yet. Die Studierenden beherrschen die Grundlagen der Gruppentheorie, insbesondere der Lie-Gruppen. Sie sind in der Lage, Problemstellungen der Gruppentheorie zu erkennen und mit Hilfe der erlernten Methoden zu lösen. Sie können die Gruppentheorie zur Formulierung und Bearbeitung physikalischer Probleme anwenden.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (3) + R (1) Module taught in: German or 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)		
written examination (approx. 90-120 minutes) or oral examination of one candidate each (approx. 30 minutes) or oral examination in groups (groups of 2, approx. 30 minutes per candidate) or 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. Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester		
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		
Master's degree (1 major) Physics (2020) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020)		