Module description

| Module title | | | | | Abbreviation | |
|---|-------|---------------|---|----------------------------------|-----------------|--|
| Theoretical Solid State Physics 2 | | | | | 11-TFK2-111-m01 | |
| Module coordinator | | | | Module offered by | | |
| Managing Director of the Institute of Theoretical Physics and Astrophysics | | | | Faculty of Physics and Astronomy | | |
| ECTS | Metho | od of grading | Only after succ. con | mpl. of module(s) | | |
| 8 | nume | rical grade | | | | |
| Duration | | Module level | Other prerequisites | ier prerequisites | | |
| 1 semester | | graduate | Certain prerequisites must be met to qualify for admission to as- sessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be con- sidered a declaration of will to seek admission to assessment. If stu- dents have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for as- sessment into effect. Students who meet all prerequisites will be admit- ted to assessment in the current or in the subsequent semester. For as- sessment at a later date, students will have to obtain the qualification for admission to assessment anew. | | | |
| Contents | | | | | | |
| b) transport phenomena c) magnetic impurities in metals. Kondo effect and heavy fermions d) electron-phonon interaction e) one-dimensional conductors Intended learning outcomes The students have advanced knowledge of the theoretical description of solid-state phenomena. They know the mathematical or theoretical methods and are able to apply them to problems of solid-state theory and understand the connections to experimental results. The individual students have elaborated on an advanced topic of solid-state theory and have discussed this topic in a seminar presentation. Courses (type, number of weekly contact hours, language – if other than German) V + R (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) | | | | | | |
| a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (approx. 8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Language of assessment: German, English | | | | | | |
| Allocation of places | | | | | | |
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| Additional information | | | | | | |
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| Worklo | oad | | | | | |
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Teaching cycle

Referred to in LPO I (examination regulations for teaching-degree programmes)

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- Module appears in

Master's degree (1 major) Physics (2010) Master's degree (1 major) Physics (2011) Master's degree (1 major) Nanostructure Technology (2011) Master's degree (1 major) Nanostructure Technology (2010) Master's degree (1 major) Mathematical Physics (2012) Master's degree (1 major) FOKUS Physics (2010) Master's degree (1 major) FOKUS Physics (2011) Master's degree (1 major) FOKUS Physics (2006)

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