### Module title

| FOKUS Research Module Theoretical Solid State Physics |

| Abbreviation |

11-FM-TFK-092-m01

| Module coordinator |

chairperson of examination committee

| Module offered by |

Faculty of Physics and Astronomy

| ECTS |

10

| Method of grading |

numerical grade

| Only after succ. compl. of module(s) |

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| Duration |

1 semester

| Module level |

graduate

| Other prerequisites |

Recommended: 11-KM, 11-TQM

### Contents

Specific and advanced knowledge of independent scientific work in a current research area, especially in the discipline of Theoretical Solid-State Physics, reproduction of knowledge, acquisition of social and methodological competencies.

### Intended learning outcomes

The students have special and advanced knowledge of independent scientific work in a current research area, especially in the field of Theoretical Solid-State Physics, and are able to reproduce the acquired knowledge, to apply the acquired methods and to summarise a sub-area of the current research area in an oral presentation.

### Courses

**Theoretische Festkörperphysik (Theoretical Solid State Physics):** V (4 weekly contact hours) + Ü/P (2 weekly contact hours), German or English, once a year (winter semester)

**Kompaktseminar Theoretische Festkörperphysik (Block Taught Seminar Theoretical Solid State Physics):** S (2 weekly contact hours), German or English, details on availability to be announced (block taught seminar (3 days), usually held during semester break)

### Method of assessment

This module has the following assessment components

1. Topics covered in lectures and exercises: written examination (approx. 90 minutes) or talk (approx. 30 minutes) or oral examination of one candidate each or oral examination in groups (approx. 30 minutes) or project report (approx. 8 pages)

2. Seminar: talk (approx. 30 to 45 minutes)

Assessment components 1 and 2 will be offered in German or English. Students must register for assessment components 1 and 2 online (details to be announced).

Assessment component 1 will be offered once a year in the winter semester; details on when assessment component 2 will be offered to be announced.

To pass this module, students must pass both assessment component 1 and assessment component 2.

### 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) FOKUS Physics (2010)

Master's degree (1 major) FOKUS Physics (2011)