### Module title

**FOKUS Research Module Dirac Fermions in Mesoscopic Systems**

### Abbreviation

11-FM-RMS-092-m01

### Module coordinator

chairperson of examination committee

### Module offered by

Faculty of Physics and Astronomy

<table>
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<tr>
<th>ECTS</th>
<th>Method of grading</th>
<th>Only after succ. compl. of module(s)</th>
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<td>9</td>
<td>numerical grade</td>
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### Duration

1 semester

### Module level

graduate

### Other prerequisites

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### Contents

Specific and advanced knowledge of independent scientific work in a current research area, especially in the specialist field of Dirac fermions in mesoscopic systems, 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 Dirac fermions in mesoscopic systems, 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

1. **Relativistische Effekte in Mesoskopischen Systemen** (Relativistic Effects in Mesoscopic Systems): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English
2. **Kompaktseminar Dirac Fermionen in Mesoskopischen Systemen** (Block Taught Seminar Dirac Fermions in Mesoscopic Systems): 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).

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)