### Module Title

**Topology in Solid State Physics**

### Abbreviation

11-TFP-132-m01

### Module Coordinator

Managing Director of the Institute of Applied Physics

### Module Offered by

Faculty of Physics and Astronomy

### ECTS

6

### Method of Grading

numerical grade

Only after succ. compl. of module(s)

### Duration

1 semester

### Module Level

graduate

### Other Prerequisites

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### Contents

The students are familiar with the theory of topological effects in Solid-State Physics. They know the mathematical methods necessary for their description and are able to apply these methods to simple problems.

### Intended Learning Outcomes

The students are familiar with the theory of topological effects in Solid-State Physics. They know the mathematical methods necessary for their description and are able to apply these methods to simple problems.

### Courses

- V + R (no information on SWS (weekly contact hours) and course language available)

### Method of Assessment

- a) written examination (approx. 90 minutes) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate) 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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### 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) FOKUS Physics (2010)
- Master's degree (1 major) FOKUS Physics (2011)