Module title
FOKUS Research Module Topology in Solid State Physics with Mini Research Project

Abbreviation
11-FM-TP-MF-141-m01

Module coordinator
chairperson of examination committee

Module offered by
Faculty of Physics and Astronomy

ECTS
14

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
Specific and advanced knowledge of independent scientific work in a current research area, especially in the specialist field of topology in Solid-State Physics.

Intended learning outcomes
The students have special and advanced knowledge of independent scientific work in a current research area of topology of Solid-State Physics.

Courses
(type, number of weekly contact hours, language — if other than German)

Topologie in der Festkörperphysik (Topology in Solid State Physics): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, once a year (summer semester)

Kompaktseminar Topologie in der Festkörperphysik (Block Taught Seminar Topology in 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)

Miniforschungsprojekt Topologie in der Festkörperphysik (Mini Research Project Topology in Solid State Physics): P (2 weekly contact hours), German or English, details on availability to be announced (either block taught during semester break or approx. 3 weeks part time)

Method of assessment
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

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)

3. Research project: project report (approx. 8 pages)

Assessment components 1 through 3 will be offered in German or English.

Students must register for assessment components 1 through 3 online (details to be announced).

Assessment component 1 will be offered once a year in the summer semester; details on when assessment components 2 and 3 will be offered to be announced.

To pass this module, students must pass each of the assessment components 1 through 3.

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)