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

ECTS
9

Method of grading
numerical grade

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
Relativistische Effekte in Mesoskopischen Systemen (Relativistic Effects in Mesoscopic Systems): V (3 weekly contact hours) + Ü/P (1 weekly contact hour), German or English
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)