**Module title**  
FOKUS Research Module Theory of Superconductivity  

**Abbreviation**  
11-FM-TSL-092-m01

**Module coordinator**  
chairperson of examination committee

**Module offered by**  
Faculty of Physics and Astronomy

<table>
<thead>
<tr>
<th>ECTS</th>
<th>Method of grading</th>
<th>Only after succ. compl. of module(s)</th>
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<td>10</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 discipline of Superconductivity, 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 the theory of superconductivity, 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** (type, number of weekly contact hours, language — if other than German)

- Theorie der Supraleitung (Theory of Superconduction): V (2 weekly contact hours) + Ü/P (1 weekly contact hour), German or English, once a year (summer semester)
- Kompaktseminar Theorie der Supraleitung (Block Taught Seminar Theory of Superconduction): 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** (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)

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 summer 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)