## Module title

**FOKUS Research Module Complex Systems**

### Abbreviation

11-FM-PKS-092-m01

## Module coordinator

Chairperson of examination committee

## Module offered by

Faculty of Physics and Astronomy

## ECTS

<table>
<thead>
<tr>
<th>Duration</th>
<th>Module level</th>
<th>Other prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 semester</td>
<td>graduate</td>
<td>--</td>
</tr>
</tbody>
</table>

## Method of grading

Only after succ. compl. of module(s)

## Numerical grade

10

## Contents


## Intended learning outcomes

The students have special and advanced knowledge of independent scientific work in the field of physics of complex systems. They know and are able to apply the methods of Statistical Physics and non-linear dynamics, which are used to describe physics of complex systems, to current questions. They have acquired advanced knowledge of a specialist field and prove their knowledge in a seminar presentation.

## Courses

<table>
<thead>
<tr>
<th>Type</th>
<th>Number of weekly contact hours</th>
<th>Language</th>
<th>Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physik komplexer Systeme (Physics of Complex Systems): V</td>
<td>2</td>
<td>German or English</td>
<td>once a year (winter semester)</td>
</tr>
<tr>
<td>Kompaktseminar Komplexe Systeme (Block Taught Seminar Complex Systems): S</td>
<td>2</td>
<td>German or English</td>
<td>details on availability to be announced (block taught seminar (3 days), usually held during semester break)</td>
</tr>
</tbody>
</table>

## 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).

Assessment component 1 will be offered in the winter semester (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)