Course:
Neutron Physics

Lecturers: J. Jolie
Email: jolie@ikp.uni-koeln.de

Requirements for participation:
Nuclear Physics I

Type of module examinations:
One oral examination at the end of the module

Duration of the course:
1 semester

Aims of the course:
Introduction to the physics of and with neutrons.

Contents of the course:
- The neutron as a fundamental particle.
- Neutron sources
- Neutron detectors
- Neutron optics
- Nuclear reactions with neutrons
- Neutron capture in astrophysics

Recommended literature:

<table>
<thead>
<tr>
<th>Category</th>
<th>Type</th>
<th>Language</th>
<th>Teaching Hours</th>
<th>CP</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specialized Course</td>
<td>Lecture</td>
<td>English</td>
<td>2</td>
<td>3</td>
<td>tba</td>
</tr>
</tbody>
</table>