Degree: M.Sc. in Physics (PO von 2014)

Module: Elective Advanced Lectures: Experimental Physics

Module No.: physics70a

Course: Lecture on Advanced Topics in Quantum Optics (E)

Course No.: physics738

<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>Elective</td>
<td>Lecture with exercises</td>
<td>English</td>
<td>2+1</td>
<td>4</td>
<td>WT/ST</td>
</tr>
</tbody>
</table>

Requirements for Participation:

Preparation:
Fundamentals of Quantum Mechanics, Atomic Physics

Form of Testing and Examination:
Requirements for the examination (written or oral): successful work within the exercises

Length of Course:
1 semester

Aims of the Course:
The goal of the course is to introduce the students to a special field of research in quantum optics. New research results will be presented and their relevance is discussed.

Contents of the Course:
Will be given in the bulletin of lectures. The main theme will vary from term to term

Recommended Literature:
Will be given in the lecture

February 2009