## Module title
Advanced Topics in Quantum Technology

## Abbreviation
11-CSNM-212-m01

### Module coordinator
Managing Director of the Institute of Theoretical Physics and Astrophysics

### Module offered by
Faculty of Physics and Astronomy

### ECTS
6

### Method of grading
numerical grade

### Only after succ. compl. of module(s)
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### Duration
1 semester

### Module level
graduate

### Other prerequisites
Approval from examination committee required.

### Contents
This module allows lecturers of the quantum technology study programme to give lectures on advanced topics that cannot be covered by any other module. These lectures may either reflect new developments in research or deal with topics that are not included in the regular teaching cycle.

### Intended learning outcomes
The students deepen their knowledge and understanding of an advanced topic in quantum technology, thereby gaining insights into the interface between research and teaching.

### Courses (type, number of weekly contact hours, language — if other than German)
V (3) + R (1)

Module taught in: German or English

### Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

- written examination (approx. 90 to 120 minutes)
- oral examination of one candidate each (approx. 30 minutes)
- oral examination in groups (groups of 2, approx. 30 minutes per candidate)
- project report (approx. 8 to 10 pages)
- presentation/talk (approx. 30 minutes)

If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest.

Language of assessment: German and/or English

### 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) Quantum Technology (2021)