### Module title

Theoretical Physics 3 (Theoretical Quantum Mechanics)

### Abbreviation

11-T3-072-m01

### Module coordinator

Managing Director of the Institute of Theoretical Physics and Astrophysics

### Module offered by

Faculty of Physics and Astronomy

### ECTS

8

### Method of grading

Numerical grade

### Only after succ. compl. of module(s)

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### Duration

1 semester

### Module level

Undergraduate

### Other prerequisites

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### Contents

Limits of classical physics, Schrödinger equation, mathematical foundations of quantum mechanics, harmonic oscillator, angular momentum and spin, hydrogen atom, many-particle systems.

### Intended learning outcomes

The students have knowledge of the principles of quantum mechanics and the required calculation methods.

### Courses

V + Ü (no information on SWS (weekly contact hours) and course language available)

### Method of assessment

Written examination (approx. 120 minutes)

### Allocation of places

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### Additional information

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### Referred to in LPO I

(examination regulations for teaching-degree programmes)

### Module appears in

- Bachelor’s degree (1 major) Mathematics (2008)
- Bachelor’s degree (1 major) Mathematics (2007)
- Bachelor’s degree (1 major) Physics (2007)
- Bachelor’s degree (1 major) Physics (2009)
- Bachelor’s degree (1 major) Physics (2008)
- Bachelor’s degree (1 major) Nanostructure Technology (2008)
- Bachelor’s degree (1 major) Nanostructure Technology (2007)
- Bachelor’s degree (1 major) Computational Mathematics (2009)
- Bachelor’s degree (1 major, 1 minor) Physics (Minor, 2008)