# Module description

**Module title**  
Theoretical Physics 3 FOKUS (Theoretical Quantum Mechanics)  

**Abbreviation**  
11-T3F-072-m01

<table>
<thead>
<tr>
<th>ECTS</th>
<th>Method of grading</th>
<th>Only after succ. compl. of module(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>numerical grade</td>
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<table>
<thead>
<tr>
<th>Duration</th>
<th>Module level</th>
<th>Other prerequisites</th>
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<tbody>
<tr>
<td>1 semester</td>
<td>undergraduate</td>
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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)

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## Module appears in

- Bachelor’ degree (1 major) Physics (2007)
- Bachelor’ degree (1 major) Physics (2009)
- Bachelor’ degree (1 major) Physics (2008)
- Bachelor’ degree (1 major) Nanostructure Technology (2008)
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