Welcome to TUM’s Physics Department

www.ph.tum.de
Academic Counseling

**Dr. Martin Saß**  
Master's degree programs  

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Wed. and Thu. 9 – 11 a.m.

**Dr. Philipp Höffer von Loewenfeld**  
General courses' issues and soft skills  

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**Dr. Maria Eckholt**  
International students, going abroad  

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**Dr. Andreas Hauptner**  
Advanced Lab Course  

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Tue. 2:30 – 4:00 pm
## Curriculum

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<th>Remarks</th>
<th>CP</th>
<th>Semester</th>
<th>P/S</th>
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<td><strong>Advanced Studies</strong> during the first year</td>
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<tr>
<td>Theoretical Physics</td>
<td>Specific Catalog</td>
<td>10</td>
<td>WS / (SS)</td>
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<td>Special Courses</td>
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<td>Complementary Catalog</td>
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<td>Advanced Subject-Specific Key Qualifications in Physics</td>
<td>- Advanced LacbCourse (6 Experiments) - Proseminar</td>
<td>10</td>
<td>WS / SS</td>
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<td>Non-Physics Courses</td>
<td>Open Catalog</td>
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<table>
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<th>Research Phase</th>
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<td>Literature research and specialization</td>
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<td>Master's Training</td>
<td>Methodology and project planning</td>
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<td>One full year</td>
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<td>Master's Thesis</td>
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<td>Master's Colloquium</td>
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P = Examination (Prüfungsleistung); S = Coursework (Studienleistung)
Mentor Counseling

- Choose a mentor within the professors of the Physics Department
- A mentor can help you putting together your study plan
- Take the counseling within the first two weeks of the lecture period
- The discussed study plan is not definitive, you can change your choice of courses later on.
Theoretical Physics Courses

- Usually offered in the winter semester
- Elective course (Catalog)
- Courses from the list can also be chosen as → Special Courses
- To take an exam: register in TUMonline!!
Special Courses

- Get infos during the first hour of lectures and register in TUMonline to keep in touch with lecturers

- 20 ETCS assigned to your Master program, another 10 ECTS from the complementary offer

- To take an exam: register in TUMonline!!

- After the first year, you have to have accumulated at least 10 ECTS in special courses

- Make use of the mentor advice
Non-Physics Courses

- At least 8 ECTS points
- Elective courses, open catalog
- To choose from the department of mathematics, informatics, chemistry or engineering – **not** from management!
- Courses must belong to a Master program
- To take an **exam: register in TUMonline!!!**
Advanced Subject-Specific Key Qualifications in Physics (FFSQ)

- Formally combines the physics coursework (nongraded courses) to one modul:
  - Student Seminar
  - Advanced Lab Course
Student Seminar must be assigned to your program.

The assignation of topics and scheduling of the dates is usually done in a preliminary discussion in the first week of lectures.

Within this preliminary discussion all details for this specific seminar are set.

- **Register exam in TUMonline!!!**
FFSQ: Advanced Lab Courses

www.ph.tum.de/academics/org/labs/fopra

- Groups of 3 students
- Normally 3 experiments per semester
- Learning outcomes:
  - read the relevant literature and operate by yourself a complex experimental setup, carrying out a scientific experiment
  - analyze the obtained data and write a scientific report which fulfils the fundamental requirements of a scientific publication
  - get in touch with different groups and institutes
FFSQ: Advanced Lab Courses

www.ph.tum.de/academics/org/labs/fopra

- Registration and team formation
  - Register yourself by October 21
  - Then, teams register for the individual experiments starting October 26

- Obligatory safety instructions
  - Moodle course

- Preliminary meeting
  - October 23 at 6 pm in HS 1
Soft Skills

- At least 3 ECTS points
- Elective courses, open catalog
- To choose from e.g. the TUM School of Management, the Carl-von-Linde Academy or the Language Center
- To take an exam: register in TUMonline!!!
Research Phase

- One inseparable entity
  (only formally divided into parts)

- One year of research in a group of the department

- Find a supervisor during the first year

- Register at the **beginning** of the research phase

- Additional information event
Deadlines
Deadlines

- **Exam registration:**
  - winter semester: January 15
  - summer semester: June 30
  - possibly different dates in other departments
Deadlines

- **Credit limit for special courses:**
  min. 10 ECTS by the end of the 2nd semester
Deadlines

- **General credit limit:** ("not more than one year behind")
  - by the end of the 3rd semester: 30 ECTS
  - by the end of the 4th semester: 60 ECTS
  - by the end of the 5th semester: 85 ECTS
Deadlines

- **Conditional Courses:**
  - Must be passed after the 2nd semester
  - Only two attempts
Questions?

- If you have problems... **Let us know!**
Questions?

- If you have problems... Let us know!

- and do not forget to register for the winter term,
  deadline: February 15
Enjoy Munich!