

## COURSE SYLLABUS

First year	
The student follows introductory courses (basic modules) and/or advanced master courses	60 CP
Second year + Thesis	
The student mainly writes the thesis and follows connected courses/seminars	60 CP

CP: Credit Points

Within the Double Master programme the student will study at two universities, taking courses in advanced topics in physics or mathematics. The student will spend half of his/her Master's course at one university (2 semesters) and the other half at the other university (2 semesters). The studies follow the standard curricula with one supervisor from each university.

### Tübingen

- Tuition fees: none, compulsory student union membership and administrative fee € 210/year.
- Medical insurance (mandatory): € 60/month with the National insurance scheme or with a private insurance scheme.
- Accommodation about € 270/month

### Trento

- Tuition fees: in Trento a maximum of € 2.800/year; as the "university funding system" is based on family income, the average fee is about € 1.700.
- Medical insurance (mandatory): Complete coverage with the national health insurance scheme is € 149/year, dental not included.
- Accommodation (opera Universitaria – University Guild): € 250/month single room; € 205/month double room; all expenses included (heating, electricity, etc.). If you receive a scholarship the cost is about € 50/month less than the regular one.

GEFÖRDERT VOM



Bundesministerium  
für Bildung  
und Forschung



## DOUBLE MASTER @ TÜBINGEN & TRENTO

### The University of Tübingen

Innovative. Interdisciplinary. International. Since 1477. These have been the University of Tübingen's guiding principles in research and teaching ever since it was founded. With this long tradition, the University of Tübingen is one of the most respected universities in Germany. Recently, its institutional strategy was successfully selected for funding in the Excellence Initiative sponsored by the German federal and state governments, making Tübingen one of Germany's eleven universities distinguished with that title of excellence. Tübingen has also proven its status as a leading research university in many national and international competitions – in key rankings Tübingen is listed among the best universities for the Humanities and Social Sciences as well as for Science and Medicine.

### The town of Tübingen

Tübingen doesn't have a university, Tübingen is a university: young, creative, open, innovative. The beautiful, historic old town and its picturesque location on the Neckar River enhance the high quality of life and provide excellent opportunities for outdoor activities.

### The University of Trento

The University of Trento is one of the youngest Italian universities: Founded in 1962 as a higher education institute for social sciences, which became the first faculty of sociology in Italy. As of today the University of Trento has seven faculties and holds outstanding positions both in national and international rankings. In particular, the Faculty of Sciences is ranked first among medium-size Italian universities.

#### Student guidance and advising:

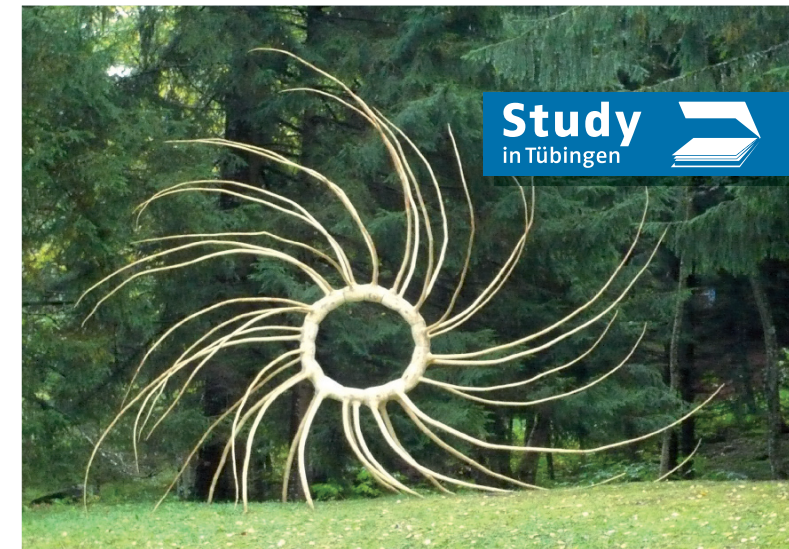
##### University of Tübingen · Faculty of Science

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EBERHARD KARLS  
UNIVERSITÄT  
TÜBINGEN



Double Master Programme  
**PHYSICS OR MATHEMATICS**  
**University of Tübingen (Germany) and**  
**University of Trento (Italy)**



UNIVERSITÀ DEGLI STUDI  
DI TRENTO

## PROFILE

The student will study within this Double Master Programme at two universities, taking courses in advanced topics in physics or mathematics. The student will spend half of his/her Master's course at one university and the other half at the other university. The objective of the Master's Programme is to provide the students with the necessary skills to cope with at least one of the topics covered at either university, at the edge of research in physics or mathematics. The student will complete a thesis under supervision by two tutors, one from each university.

### Programme

The Double Master Programme aims at training students in emerging research domains in physics or mathematics. It prepares students for employment in multidisciplinary areas and/or for continuing their studies within PhD programmes. During his/her studies, the student will work within research groups of two leading European universities and will interact with professors, researchers and scholars.

### Physics:

After completing the programme the student will have become familiar with some of the most advanced subjects in modern physics. Depending on his choice he will have acquired skills in manipulating sophisticated instrumentation or will possess the competencies necessary for the design and implementation of complex theoretical and computational methods.

### Mathematics:

The programme offers to selected students the opportunity to combine the best of two different approaches to pure and applied mathematics. The student will spend one year at each university. During the first year the student will follow mainly institutional courses, whereas the second year will be mostly dedicated to advanced courses and to the thesis work, which will have two supervisors, one from each university.

## OPPORTUNITIES



### Career Perspectives

The successful student receives two degrees: Master of Science in physics or mathematics and Laurea Magistrale in physics or mathematics. The Master of Science entitles enrolment into international PhD programmes. Living in two countries and knowing their languages and life styles are valuable assets for any job application.

### Idea

This joint programme is inspired by the idea of mutual recognition of studies between European universities. The European Credit Transfer System (ECTS) is used to assess the work done by students. The proposed curriculum with double supervision at two universities will permit close contact with many professors and different kinds of students – full of experiences and much more intense than short term exchange programmes.

## ADDITIONAL INFORMATION

[www.uni-tuebingen.de/en/11820](http://www.uni-tuebingen.de/en/11820)

<http://msc-tuebingen-physics.science.unitn.it/>

<http://msc-tuebingen-maths.science.unitn.it/>

[www.uni-tuebingen.de/en/3256](http://www.uni-tuebingen.de/en/3256)

<http://international.unitn.it/photogalleries>

## REQUIREMENTS/QUALIFICATIONS

To enter the physics programme a bachelor degree (3 years) with 90 ECTS points in physics and 30 ECTS points in mathematics are required. The mathematics enrolment requires a three-year bachelor in mathematics. Basic knowledge of German and English is required.

## APPLICATION/ADMISSION TIMELINE

Check for the call at the end of each calendar year for a start in the following academic year on the application site for the Double Degree Programme:

<http://msc-tuebingen-physics.science.unitn.it>

<http://msc-tuebingen-maths.science.unitn.it>

