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Master's degree



MSc Theoretical and Mathematical Physics

Ludwig-Maximilians-Universität München • München

Overview

Degree	Master of Science in Theoretical and Mathematical Physics				
Course location	München				
In cooperation with	Department of Physics of the Technische Universität München (TUM)				
Teaching language	• English				
Languages	Courses are held in English.				
Programme duration	4 semesters				
Beginning	Wintersemester				
Application deadline	Applications must be submitted by 15 June for the upcoming winter semester. More information can be found here.				
Tuition fees per semester in EUR	None				
Combined Master's degree / PhD programme	No				
Joint degree / double degree programme	Yes				
Description/content	Physics and mathematics are cornerstones of our knowledge-based society due to the structural power of abstraction, mathematical algorithms, and the far-reaching consequences of logical induction. This elite programme offers both an in-depth and broad-based education in theoretical and mathematical physics covering: advanced and applied quantum mechanics quantum field theory gauge theories cosmology general relativity differential geometry string theory statistical physics stochastics 				

Special focuses are on transdisciplinarity, i.e. the transfer of knowledge from one discipline to a related one and the interdisciplinarity between modern theoretical physics and mathematics. The basic goal here is to demonstrate that physics and mathematics share many common questions. Besides annual courses, local lecturers with worldwide reputation are joined by visiting experts in presenting special courses. The programme exposes students to cutting-edge research by integrating them into one of the more than thirty participating research groups.

Ludwig-Maximilians-Universität (LMU) and Technische Universität München (TUM) areworldwide highly ranked universities, two of the leading universities in Germany and part of the German Universities Excellence Initiative. Several Nobel laureates, Leibniz prize winners, ERC grant holders and Humboldt professorships have been affiliated with LMU and TUM Faculties of Physics and Mathematics. Students of the TMP Master's programme get the possibility to learn and work closely with worldwide recognised researchers with a strong international network and do state of the art research.

LMU and TUM form an integral part of the exceptionally broad-based network of research institutions, universities, foundations, and corporations based in Munich. The city's other research institutions, the Max Planck Society and the Fraunhofer Society, as well as global enterprises and a vibrant start-up scene are closely intertwined with LMU and TUM.

All this builds the framework for an outstanding education in physics and mathematics and prepares the graduates of the Theoretical and Mathematical Physics (TMP) Elite Master's programme at LMU and TUM for an international career.

Course Details

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Cou	rse	orga	nısa	tion

The curriculum for the MSc Theoretical and Mathematical Physics comprises four semesters. In the first three semesters, students choose classes from a wide range of areas in theoretical physics and mathematics. The half-year Master's project takes place in the fourth semester.

International elements

- International guest lecturers
- Integrated/optional study abroad unit(s)

Integrated/optional study abroad unit(s)

There are numerous opportunities to go abroad as part of the degree programme.

Course-specific, integrated German language courses

No

Course-specific, integrated English language courses No

Costs / Funding

Tuition fees per semester in

None

Semester contribution

Currently, about 85 EUR per semester (Fee can change; please check here.)

Funding opportunities

Yes

Description of the abovementioned funding opportunities within the university Funding opportunities can be foundhere.

Requirements / Registration

Academic admission requirements

The application for the MSc Theoretical and Mathematical Physics requires a first professional university degree or an equivalent degree from Germany or abroad in one of the subject areas physics or mathematics.

Further information on the application process can be foundhere.

Language requirements

If available: TOEFL, IELTS or comparable test

Application deadline

Applications must be submitted by 15 June for the upcoming winter semester.

More information can be found here.

Submit application to

All applicants must apply to the programme to take part in the aptitude procedure.

Further information can be found here.

Services

Accommodation

Helpful websites for searching for accommodation can be foundhere and here.

Career advisory service

LMU students, doctoral candidates or graduates can make use of the MU Career Services, giving them the opportunity to get a head start on their careers.

General services and support for international students and doctoral candidates

The International Office provides a wide range of services for students.

Contact

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- f https://de-de.facebook.com/lmu.muenchen/
- https://www.instagram.com/physik.lmu/

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International Programmes in Germany - Database

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Editor

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