

Hopf fibration
picture by Niles Johnson, Ohio State University

Coordinators

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Admission requirements

Applicants must hold a Bachelor's degree in Mathematics or in a related field.



Online applications

<https://ciencias.ulisboa.pt/pt/candidaturas-0>



Information

<https://fenix.ciencias.ulisboa.pt/degrees/matematica-564500436615368>

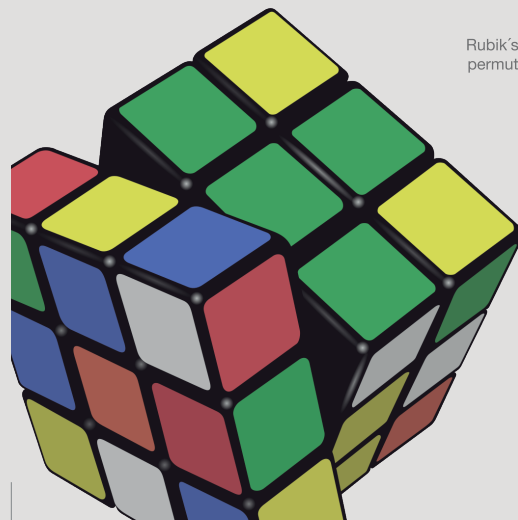
Students may have the opportunity to be tutors at Departamento de Matemática, FCUL.

Contact

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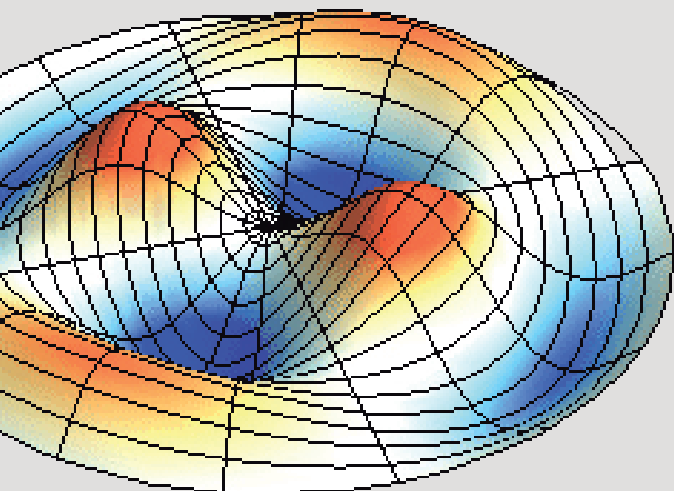


Rubik's Cube
permutations

MASTER IN MATHEMATICS

Departamento de Matemática





(2,2) mode of vibration of a circular membrane
picture by Dan Russel, Penn State University

This Master program in Mathematics has a long and successful history that started in 1986.

This Master provides solid knowledge in various areas of Pure and Applied Mathematics. The students acquire logical thinking, problem-solving and decision-making skills, to continue their academic studies, such as a Ph.D., or to enter the labour market.

The main employment areas are in academia, industry or public service, possibly as lecturers, researchers, analysts, or consultants.

The Alumni have made excellent careers working for different institutions, either public or private, namely as:

- Professors or researchers at Universities and Colleges,
- School teachers,
- Working for banks, consulting firms, insurance, web or computing companies, both in Portugal and abroad.

Structure

This is a two-year cycle.

The student must choose two nuclear courses out of Algebra, Functional Analysis and Differentiable Manifolds, plus a number of optional courses, which range from pure to Applied Mathematics. The Seminar and the Dissertation complete the program.

Optional Courses

Students have access to the two-year list of courses at the beginning of the program.

The present full list is the following, but new offers may occur:

- Algebraic Number Theory
- Algebraic Topology
- Biomathematics
- Calculus of Variations
- Combinatorics
- Dynamical Systems
- Differential Topology
- Ergodic Theory
- Evolution Problems
- Finite Element Methods and Applications
- Introduction to Algebraic Geometry
- Lie Groups and Lie Algebras
- Mathematical Logic
- Mathematical Methods in Physics
- Mathematical Physics
- Multilinear Algebra
- Numerical Analysis of Differential Equations
- Operator Theory
- Ordinary Differential Equations
- Partial Differential Equations
- Riemannian Geometry
- Rings, Algebras and Representations
- Semigroups, Automata and Languages
- Stochastic Analysis
- Universal Algebra

Free options: It is possible to take some courses of another Master program at ULisboa, or of a Ph.D. program at FCUL (this is subjected to the approval of the coordinator of this Master).

The lecturers have large experience both in teaching and in supervising advanced studies. Courses are taught by experts in the respective fields.

Students may count with full support from the teaching staff, and benefit from nowadays electronic means of contact, the excellent library and the computing facilities at the department.

Although course attendance is not compulsive it is strongly advised.

International students are most welcome, and when necessary the courses are taught in English.

This program has the support of the research units CEAFEL-Ciências, CEMAT-Ciências, CMAF-CIO and GFM.

Penrose tiling
partial symmetry

