

Mathematics at the Radboud Universiteit Nijmegen

April 28th, 2014

change perspective

Location



change perspective

Location



change perspective

Campus Radboud Universiteit Nijmegen



change perspective

Radboud University



Faculty of Science



Huygens building



**Huygens
(1629 – 1695)**

Institute for Mathematics, Astrophysics and Particle Physics

Six departments within IMAPP:

- Theoretical High Energy Physics (THEP)
- Experimental High Energy Physics (EHEP)
- Astronomy (Astro)
- Maths: Mathematical Physics (MP)
- Maths: Algebra & Topology (AT)
- Maths: Applied Stochastics (AS)

Master tracks

Taught in English

- **Management and Innovation**
Preparation for a career in industry.
- **Education**
Preparation for a career in high school teaching.
Includes one year traineeship.
- **Society**
Preparation for a career in society (journalist, communication, spokesperson, etc)
- **Research**
Preparation for a career in scientific research.



Research track in mathematics

General structure:

- Major specialisation 30 ec
- Minor specialisation 24 ec
- Mathematical Electives 17 ec
- Master Thesis Project 40 ec
- Philosophy 3 ec
- Free Electives 6 ec

From which at least 30 ec in
the National Mastermath Programme



Subjects within the research master

- **Mathematical Physics**
non-commutative geometry, representation theory, operator algebras, quantum field theory, Lie groups, quantum groups, Hecke algebras, integrability, special functions, quantisation
- **Algebra and Topology**
algebroids, algebraic geometry, arithmetic geometry, moduli spaces, mathematical logic, computer algebra, crystallography, complexity, number theory
- **Applied Stochastics**
probability, statistics, statistics in health, interacting particles systems, random polymers, last passage percolation, random graphs, quantum information theory, probabilistic and extremal combinatorics
- **Mathematical Foundations of Computer Science**
complexity, proof theory, logic, category theory, semantics, languages, interplay between mathematics and computer science

DESDA



Nijmegen mathematics student's union DESDA

Very active!

Selection of activities:

- excursions
- drinks
- cultural evenings
- lectures
- dinners
- ...