

Track Physics ("Phy-Profil") in the Master's programme in mathematics

Structure:

120 C in 4 semesters, so about 30 C per semester, thereof			
60 C Mathematics modules	18 C Minor subject modules	12 C Key competencies modules	30 C Master's thesis in the 4th semester

Possible areas of concentration:

The area in which the Master's thesis is written is called the area of concentration. It is not bindingly fixed before the registration of the Master's thesis.

SP 1: Analysis, geometry, topology	SP 2: Algebra, geometry, number theory	SP 3: Numerical and Applied mathematics	SP 4: Mathematical stochastics
Overview of SP 1: http://www.uni-goettingen.de/en/489174.html	Overview of SP 2: http://www.uni-goettingen.de/en/489176.html	Overview of SP 3: http://www.uni-goettingen.de/en/489178.html	Overview of SP 4: http://www.uni-goettingen.de/en/489179.html

Regulations for the modules that have to be chosen:

60 C Mathematics modules:

As possible, students of the Master's programme in mathematics should cover all four areas of concentration, therefore the following rules depending on the chosen area (in which students normally can take as many courses as they like) hold:

- 12 C of the cycles
 - o Mathematical methods of physics,
 - o Analysis of partial differential equations,
 - o Differential geometry,
 - o Algebraic topology,
 - o Noncommutative geometry,
 - o Groups, geometry and dynamic systems,thereof at least a seminar or oberseminar module covering at least 3 C.
- 12 C of SP 3 or SP 4, thereof at least a seminar or oberseminar module covering at least 3 C.
- The remaining 36 C can be chosen freely from all Master mathematics modules.
- At most 12 C of the 36 C can also be chosen from the area of the minor subject physics.

18 C Minor subject modules

The 18 C have to be chosen from the minor subjects astrophysics and physics: <http://www.uni-goettingen.de/en/487756.html>

12 C Key competencies modules

- A key competencies module from the offer of the Faculty of Physics OR at least a key competencies module of the mathematics modules has to be chosen: <http://www.uni-goettingen.de/en/485031.html>
- If the modules of the first item do not reach 12 C, you additionally have to chose from the following modules: www.uni-goettingen.de/en/192579.html