

# Cologne Young Researchers in Number Theory

## Program 2015

February 18-April 3

### Overview:

The Cologne Young Researchers in Number Theory Program aims to offer a competitive, 6-week intensive program for 6-8 students who have not started a Ph.D. program. Students will work in small groups on original research projects.

### Project Areas:

The topics will focus on modular forms, harmonic Maass forms, and related objects. Possible topics include:

- ▶ Singular moduli
- ▶ Structure of Hecke algebras
- ▶ Infinite families of sums of squares and related identities
- ▶ Period polynomials
- ▶ Quantum modular forms
- ▶ Meromorphic modular forms

### Eligibility:

- ▶ Students from Europe or abroad
- ▶ Undergraduates and Master's students
- ▶ Previous experience in number theory not required

**Application deadline:** October 15, 2014

**For further details, visit:**

<http://www.mi.uni-koeln.de/~lrolen/CYRP>

### Contact:

Dr. Larry Rolen

[larryrolen@gmail.com](mailto:larryrolen@gmail.com)