

# BERNOULLIS TAFELRUNDE

GRADUATE STUDENT SEMINAR

**Thursday, 22 October, 12:15-13:00**  
Seminarraum 00.003, Spiegelgasse 1

STEFAN SCHMID

Universität Basel

## **Modular Forms in Number Theory and Combinatorics**

### ABSTRACT

Modular forms play an important role in number theory and combinatorics. They are complex functions with certain Laurent expansions, which allow tools from complex analysis for investigation. We want to define the most basic of modular forms, and explain how they can be used to solve combinatorial/number theoretic identities such as the four-square problem.