

## Ulrike Tillmann Moduli spaces in the eyes of a topologist: Mumford's conjecture and beyond

## TIME:

4 Dec 2007, 16:15

## LOCATION:

Konrad-Zuse-Zentrum für Informationstechnik Berlin Takustrasse 7 Großer Hörsaal

Moduli spaces were first studied by Riemann, and have been a

central object of mathematical study ever since. 25 years ago Mumford initiated the systematic study of its topology. In this lecture I

will review some background and explain how a fusion of ideas from conformal field theory and algebraic topology led to the proof of

Mumford's conjecture on the stable cohomology of moduli spaces.

The methods

of proof have been generalised yielding new exciting applications in higher and lower dimensions.