



SFB-Seminar

ZEIT:

12.1.2009, 15:00 Uhr - 18:00 Uhr

ORT:

Konrad-Zuse-Zentrum für Informationstechnik Berlin
Takustrasse 7
14195 Berlin-Dahlem

PROGRAMM:

15:00 - 16:00 **Jan Christophersen (Oslo, currently Mainz)**

Equivelar triangulations of tori and abelian surfaces

Triangulations of topological manifolds may be used to construct spaces in algebraic geometry via Stanley-Reisner schemes. In this talk I

will start with degree regular triangulations of the torus. Deforming these surface leads to interesting combinatorics, including a special 6 dimensional reflexive polytope and a Calabi-Yau 3-fold with Euler number 6.

16:00 - 16:30 Kaffeepause

16:30 - 17:30 **Jochen Heinloth (Amsterdam)**

Twisted loop groups and related moduli spaces

Loop groups have been very useful in the study of moduli spaces of bundles over Riemann surfaces. We want to explain that a similar relation exists for twisted loop groups. This came up in a series of conjectures by Rapoport and Pappas. Their motivation to study twisted loop groups came from arithmetic questions.

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