



## Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

**Dienstag, 21. Juni 2016**

17 Uhr s.t., Geom H4

Prof. Dr. Nils Scheithauer  
(TU Darmstadt)

### ***From Bernoulli numbers to strings***

Abstract:

The classification of the finite dimensional simple Lie algebras over the complex numbers is closely related to the solutions of the inequality  $1/p + 1/q + 1/r > 1$  over the positive integers. There is a certain class of infinite dimensional Lie algebras whose denominator functions are automorphic forms on orthogonal groups. We show that these Lie algebras can be classified by a single equation involving the Bernoulli numbers and explain their relation to compactified strings.

Vor dem Vortrag (ab 16.30 Uhr) stehen im Raum 327 Kaffee und Tee bereit.