SFB–Seminar

Am Montag, den 28.10.1996 finden folgende Vorträge statt:

Tame algebras, matrix problems and derived categories

P. Dräxler

Der Vortrag beginnt um 16 Uhr im Raum V2-205.

Abstract

A finite-dimensional algebra A over an algebraically closed field k is said to be tame if the indecomposable representations of fixed dimension can be parameterized by finitely many 1-parameter families. The most efficient technique to prove the tameness of a particular algebra is to reduce its category of representations to a matrix problem which is easier to handle. We want to outline a recent result where we deal with whole classes of algebras by attaching a matrix problem not only to the category of representations but by involving also the associated derived category.

Boundary problem for flat manifolds

A. Szezepanski

Der Vortrag beginnt um 17:30 s.t. Uhr im Raum V2-205.

Abstract

It is known that each flat manifold (compact with sectional curvature zero) is a boundary of another one (Hamrick, Royster - Inv. Math. 1982).
We shall consider the following question: Is a flat manifold the boundary of a hyperbolic one?
More precisely: Let M be a flat manifold. Is it true that there exists a manifold W such that $\partial W = M$ and on $W \setminus M$ exists a complete Riemannian structure with constant curvature -1. Almost nothing is known about this problem. Even for the n-dimensional flat torus T^n the answer is only known for small n.
We shall discuss the present state of this problem. In particular, we shall sketch the answer for all 3-dimensional flat manifolds and touch many other interesting aspects of this question; as relative hyperbolization of polyhedra and relatively hyperbolic groups.

Es gibt Kaffee und Tee im Blauen Salon schon um 15:30 Uhr.

G. Röhrle