



Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 30. Mai 2017

17 Uhr s.t., Geom H4

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Knots with a view toward four-manifold theory

Abstract:

We start by describing how knots (visualizable objects in Euclidian 3D space) allow describing less traceable objects such as four-manifolds. We discuss different notions of sliceness (a notion going back to Fox) and relate them to constructions of topological four-manifolds that illustrate the strong dichotomy between smooth and topological four-manifolds. We plan to focus our discussion on two, arguably the simplest, concrete families of knots: two-bridge knots and torus knots.

No knowledge of four-manifold theory or knot theory will be assumed.

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