Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 18. Oktober 2022

17 Uhr, Geom H4

Prof. Dr. Paul Wedrich
(Universität Hamburg)

On knots and 4-manifolds

Abstract:

This talk will start with a gentle introduction into the mathematical study of knotted structures in the research field of low-dimensional topology. Particular emphasis will lie on how knots serve as data structure for 3- and 4-dimensional manifolds, and how knot invariants can be tricked into revealing information about such spaces. The final goal of the talk is to present a recently discovered formula for the computation of a new kind of invariant for oriented smooth 4-manifolds via a `Kirby color for Khovanov homology´.

Vor dem Vortrag (ab 16.30 Uhr) stehen im Foyer vor Hörsaal H4 Kaffee und Tee bereit.