



Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 5. Juli 2016

17 Uhr s.t., Geom H4

Prof. Dr. Anna Wienhard
(Universität Heidelberg)

Rotation numbers – from elements to groups

Abstract:

In 1885 Poincaré introduced the rotation number of a homeomorphism of the circle. It has since been used to classify homeomorphisms of the circle. The classical rotation number can be generalized to give invariants not only of single homeomorphisms, but of actions of groups on the circle.

This invariant can for example be used to determine when an abstract homomorphism of the fundamental groups of two surfaces is induced from an actual homeomorphism of the surfaces. Key ingredient for this application is an order on the fundamental group of surfaces.

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