



Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 7. November 2017

17 Uhr s.t., Geom H4

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How homogeneous is a quantum homogeneous space?

Abstract:

Homogeneity is a classical and ubiquitous concept: the fact that all points of a topological space, manifold, or variety "look the same" is expressed in terms of a transitive action of a group of symmetries. With the discovery of quantum groups as generalised symmetries, homogeneity was generalised in the 1990s, and quantum versions of classical examples of homogeneous spaces such as spheres, tori, or flag manifolds were studied extensively. However, it turns out that classical spaces which are clearly not homogeneous, such as for example singular plane curves, also fit the definition of a quantum homogeneous space, which leads to a new viewpoint on the question what quantum group symmetries tell us about the structure of algebraic and geometric objects.

Based on joint work with Angela Tabiri.

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