

Knots in dynamics: Linking numbers for geodesic flows

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Abstract

Knot theory is the study of topological characteristics of circles embedded in 3-dimensional space (knots). Often, invariants such as the linking number can be used to tell apart different configurations of knots. In continuous-time dynamical systems, knots may arise as orbits of flows. In this talk I will discuss existing results for knots which come from dynamical systems, as well as recent work on linking numbers for geodesic flows. If time permits, I will mention the more general case of Anosov flows.

Time: 12 p.m, 17th November 2021

Location: B3.02

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