

Prof. Gregor Weingart
Universidad Nacional Autónoma de México

Rozansky-Witten and Stable Curvature Invariants

25. Juni 2024– 16:15 Uhr
Raum 7.530

Abstract: Rozansky-Witten Invariants are local curvature invariants of hyperkähler and quaternionic Kähler manifolds associated to graph algebras. After discussing a couple of variants of this construction I will develop the analogous graphical calculus for local curvature invariants of general Riemannian manifolds.

In particular I will discuss the Euler characteristic and the generating function of curvature moments in this graphical calculus in order to derive the cubic analogue of the Hitchin-Thorpe inequality for Einstein manifolds.

