

Wintersemester 2025/26

Dresdner Mathematisches Seminar

Prof. Dr. Anton Thalmaier

University of Luxembourg, Dept. of Mathematics

Analysis of the heat flow on Riemannian manifolds

The effect of curvature in the propagation of heat on a Riemannian manifold is a classical problem. A quantitative measurement of this behavior is encoded most directly in many geometric functional inequalities.

Stochastic Analysis provides natural tools to quantify this effect.

In this talk, we exemplify the interplay of geometry and probability theory in connection with the Riesz transform and the validity of Calderón-Zygmund inequalities on complete Riemannian manifolds.

Mittwoch, 07.01.2026, 17:00 Uhr – Willers-Bau, Raum A 124

Leitung: Prof. Dr. Réne Schilling

Vor dem Vortrag findet **ab 16:30 Uhr** ein gemeinsames **Kaffee-/ Teetrinken** **vor dem Vortragsraum WIL A 124** statt.

Stand: 11.12.2025