



Seminar/Talk

A Discovery Tour in Random Riemannian Geometry (2012.06796)

Lorenzo Dello Schiavo

IST Austria

Host: M. Beiglböck, N. Berestycki, L. Erdős, J. Maas, F. Toninelli

In this talk, we discuss constructions and properties of massive Fractional Gaussian Fields h on a given Riemannian manifold (M, g) of bounded geometry. Our focus is on the regular case with Hurst parameter $H > 0$, the celebrated Liouville Geometry in 2d being borderline. We study random perturbations of the metric g by conformal factor the Fractional Gaussian Field h , provide estimates for basic geometric and functional-analytic objects relating to the random metric, such as intrinsic distance, spectral gap, and spectral bound, and we construct the random Brownian motion associated to the random geometry. The talk is based on joint work with Eva Kopfer and Karl-Theodor Sturm

Tuesday, January 12, 2021 04:30pm - 05:15pm

online via Zoom



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station. Please find a schedule of the ISTA Shuttle on our webpage: <https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.