



## Seminar/Talk

# Local geometry of the rough-smooth interface in the two-periodic Aztec diamond

**Sunil Chhita**

Durham University

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

Random tilings of the two-periodic Aztec diamond contain three macroscopic regions: frozen, where the tilings are deterministic; rough, where the correlations between dominoes decay polynomially; smooth, where the correlations between dominoes decay exponentially. Previously, we found that a certain averaging of the height function at the rough smooth interface converged to the extended Airy kernel point process. In this talk, we discuss the local geometric picture give a conjecture for the local geometry at the rough-smooth interface. This is joint work with Kurt Johansson and Vincent Beffara.

**Tuesday, April 13, 2021 05:30pm - 06:15pm**

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.