



Mathematics and CS Seminar

Homogenization of stiff inclusions through network approximation

Alexandre Girodroux-Lavigne

IMJ-PRG

Host: Julian Fischer

The homogenization of a conductive medium randomly perforated with inclusions of infinite conductivity is a well-known problem thanks to the work of Vassili Zhikov. However, the existence of an effective model is shown under assumptions on the interparticle distance, which prevents the study of clusters and dense setting. In this talk of stochastic homogenization, we will provide a relaxed criterion ensuring homogenization relying on ideas from network approximation. This is joint work with David Gérard-Varet from Université Paris-Cité.

Thursday, February 9, 2023 04:15pm - 05:15pm

Mondi 2 (I01.01.008), Central Building



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.