

Homogenization of stiff inclusions through network approximation

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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 Paris University.

Orateur: GIRODROUX-LAVIGNE, Alexandre (IMJ-PRG)