Contribution ID: **56** Type: **not specified**

LUCA TESSIERI: Transport and localization phenomena in media with correlated disorder

Thursday, 20 February 2020 11:30 (1 hour)

We present a review of some important results obtained in the field of propagation and localization of waves in one-dimensional models with correlated disorder. In particular, we discuss how specific correlations of the random potential can give rise to peculiar transport properties in random media. We analyze some of the techniques used to deal with correlated disorder, including the Hamiltonian map approach and the recent "ers"approximation. Finally, we discuss how the results valid for 1D models are being extended to 2D and 3D systems.

Session Classification: PLENARY TALKS

Track Classification: SYMPOSIUM ON SCATTERING, QUANTUM AND CLASSICAL TRANSPORT