QMath14: Mathematical Results in Quantum Physics

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Abstract

Random Systems

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Dynamical localization in aperiodic media

In this talk we review old and new results on the phenomenon of dynamical localization arising in aperiodic media, as for example, in quasicrystals. We discuss how random Schrödinger operators appear naturally as auxiliary models in the study of wave propagation in purely aperiodic systems, and its consequences on the transport and spectral properties of such materials.