**Anderson localization of waves in exotic media**

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Anderson localization refers to the phenomenon that classical waves and quantum particles stay in some local region rather than propagating in disordered media. It occurs mainly due to the interference of multiply-scattered waves and is a universal phenomenon occurring in all areas of physics. We give an overview of Anderson localization by following its historical development. Then we introduce recent developments on localization phenomena in various kinds of complex media. Finally, we will present some examples of applications.