

Many-body localization in optical lattices

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Building on the material from the first lecture, we will here discuss disordered and quasi-periodic lattices in more detail and in particular focus on many-body localization, where generic, interacting many-body systems can fail to thermalize and hence can remain far-from-equilibrium for indefinite times.

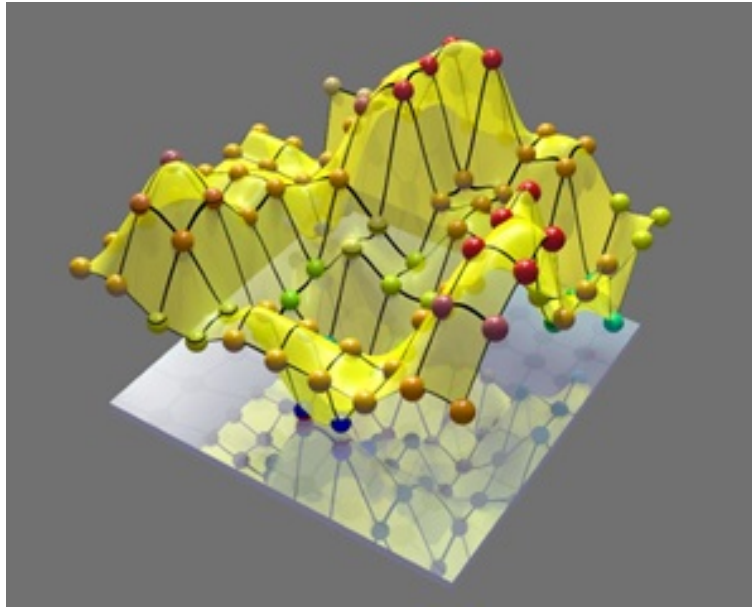


Figure 1: Disordered potential landscape giving rise to many-body localization.