

## Abstract

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### *The Quantum Random Energy Model*

The quantum random energy model serves as a simple cornerstone and testing ground in a variety of fields. It is the simplest of all mean-field spin glass models in which quantum effects due to the presence of a transversal field are studied. More recently, renewed interest in its spectral properties arose in connection with many-body localisation. In this talk, I will review some of the conjectures related to this model and present a recent proof of the predicted thermal phase diagram.