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The Eigenstate Thermalization Hypothesis in 1D Anyon Chains

FIONA BURNELL, University of Minnesota, ANUSHYA CHANDRAN, Perimeter Institute, MARC SCHULZ, University of Minnesota — For ergodic systems with Hilbert spaces satisfying a local product structure, the eigenstate thermalization hypothesis (ETH) is relatively well-established. Using exact diagonalization studies, we investigate whether quantum spin chains based on $SU(2)_k$ anyon theories, which do not admit a Hilbert space with an exactly local product structure, also satisfy ETH, and which observables exhibit this behaviour.

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