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Talk: Systems with a Hilbert space fragmentation

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Fragmentation of the Hilbert space is a specific phenomena that appears in systems with a presence of non-dynamical domain walls which lead to the exponential degeneration of energy levels. Such degeneration was observed in multiple systems. In particular such property was discovered in the folded-XXZ model [ArXiv:2105.02252](#) (see also [2009.04995](#), [2011.01159](#)). Further generalization of this model leads to new classes of integrable systems that also possess Hilbert space fragmentation. We discuss this progress based on [arXiv:2108.13724](#) and yet unpublished results.

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