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Spreading in integrable and non–integrable many–body systems

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*Highlights (for review)
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Highlights

Our main results are:

- In contrast to thermalization, spreading does not need chaos. We demonstrate how spreading occurs in an integrable setting.

- For the coupled oscillators, we show how sensitively the spreading depends on the spectrum of the interaction matrix.

- We compare our results to a non-integrable case.

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