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【604】 4D topology in a dynamical 2D system

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Topological insulators are a novel state of matter which, to date, have seen a variety of manifestations. All available realizations, however, share a common feature: their spectral bands are attributed with a nonlocal index that is quantized. This unique topological property commonly manifests through exotic bulk phenomena and robust boundary effects. In this talk, I will present a fundamental 4D insulator and show the connection of the 2nd Chern number to the 0-dimensional localised states found in 2-dimensional 2nd-order TIs.

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