

Abstract Submitted
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Entanglement Spectrum In Topological Phases¹ B. ANDREI BERNEVIG, Princeton University — I will review the information that entanglement spectra give for a wide range of systems in condensed matter physics, such as fractional quantum hall effect, quantum spin chains, topological insulators, and disordered systems. I will also show how the entanglement spectrum is a unique tool to examine previously unknown many-body wavefunctions such as the ground-states of Fractional Chern Insulators (the results are based on a series of works performed in collaboration with N. Regnault, M. Hermanns, B. Estienne, Yangle Wu, Aris Alexandradinata, R. Thomale, A Sterdyniak, Z. Papić, T.L. Hughes, E. Prodan, D.P. Arovas, P. Bonderson)

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