

Abstract Submitted
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Quantum Network Models and Topological Insulators MONICA PATE, LIANG FU, Massachusetts Institute of Technology — We develop quantum network models for Anderson localization on the surface of weak topological insulators and topological crystalline insulators. These models represent systems in which delocalized helical electrons travel along contours that separate topologically distinct states. We perform numerical studies on random network systems to study the localization-delocalization transition in these materials.

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