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Symmetry-protected topological insulator and its symmetry-enriched topologically ordered boundary[1] JUVEN WANG, Institute for Advanced Study, XIAO-GANG WEN, Massachusetts Institute of Technology, EDWARD WITTEN, Institute for Advanced Study — We propose a mechanism for achieving symmetry-enriched topologically ordered boundaries for symmetry-protected topological states, including those of topological insulators. Several different boundary phases and their phase transitions are considered, including confined phases, deconfined phases, symmetry-breaking, gapped and gapless phases.

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