

Abstract Submitted
for the MAR17 Meeting of
The American Physical Society

Interaction effects on two-dimensional topological crystalline superconductors BOWEN SHI, YUAN-MING LU, Ohio State Univ - Columbus
— We classify topological crystalline superconductors (TCSCs) of free fermions on two-dimensional square and triangular lattices, and discuss how the free-fermion classification is modified by strong electronic interactions. In particular we consider the C_{4v} and C_{6v} point groups of square and triangular lattices, and their associated magnetic point groups. A connection between free-fermion TCSCs and symmetry-enriched topological orders is established, which allows us to understand the interacting classification.

Bowen Shi
Ohio State Univ - Columbus

Date submitted: 10 Nov 2016

Electronic form version 1.4