Topology of insulators and superconductors with additional order-two point group symmetries

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A classification of free fermion topological phases under order-two point group symmetries



## Results:

 ✓ New periodicity in number of coordinate under order-two point group symmetry

 $\checkmark\,$  A defect gapless state can be considered as a boundary gapless state.

 $\checkmark$  A classification of stable fermi points