X1: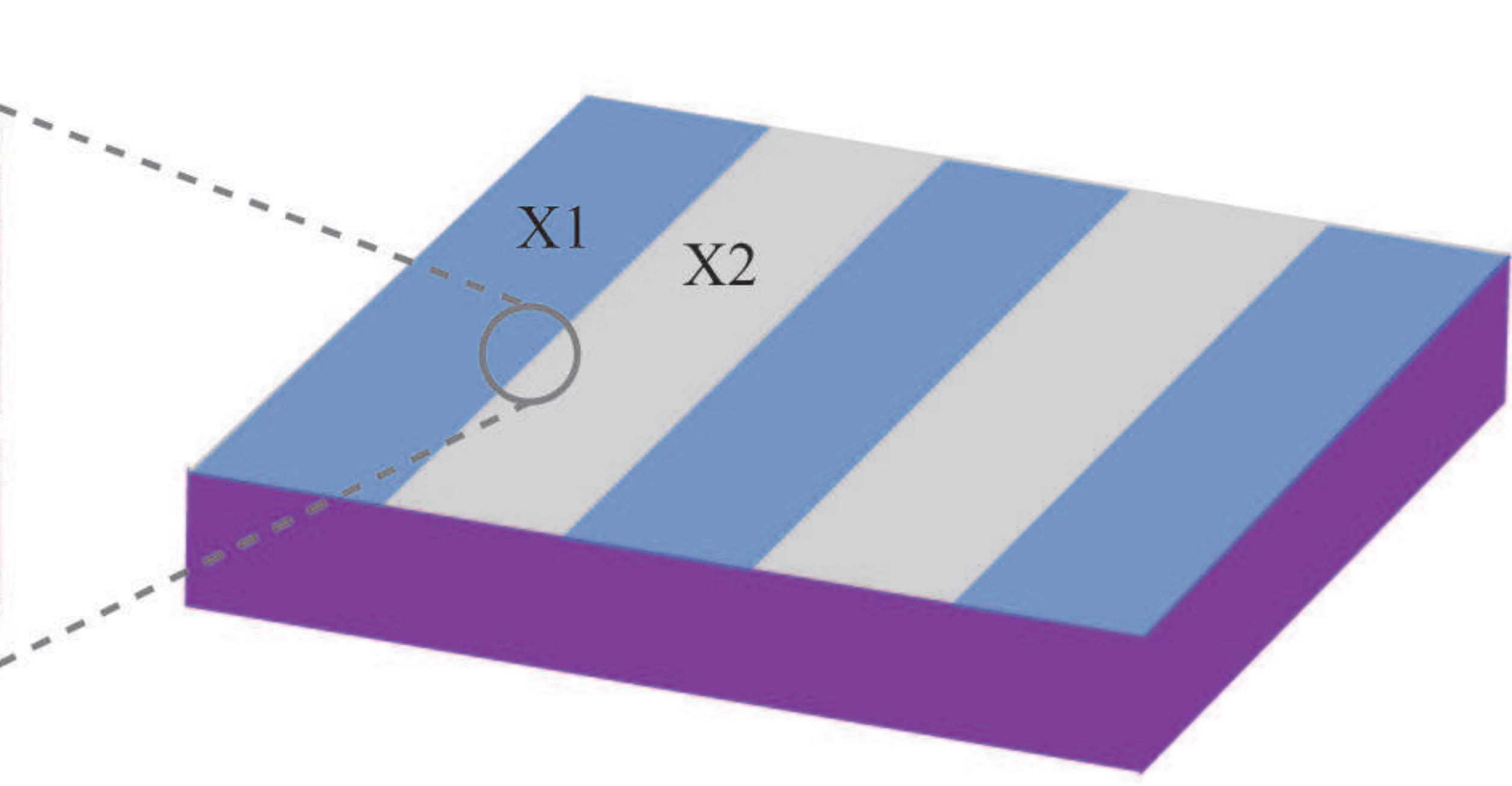 topological insulator   **helical edge states**   X2: trivial insulator