

Abstract Submitted
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**Surface Spectral Function in the Superconducting State of a
Topological Insulator**¹ TING-KUO LEE, LEI HAO, Academia Sinica, Taiwan —

We discuss the surface spectral function of superconductors realized from a topological insulator, such as the copper-intercalated Bi_2Se_3 . These functions are calculated by projecting bulk states to the surface for two different models proposed previously for the topological insulator. Dependence of the surface spectra on the symmetry of the bulk pairing order parameter will be discussed with particular emphasis on the odd-parity pairing. Exotic spectra like an Andreev bound state connected to the topological surface states will be presented.

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