

## Surface States in Weyl Semimetal Superconductors

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It has been pointed out that open Fermi arcs may exist on certain surfaces of Weyl semimetal. Recent studies show that more exotic surface states may appear on the interface between Weyl semimetal superconductors and ordinary insulators. We study the effect on the surface states of the interface when various type of insulators are considered.

### References

- [1] Bo, Lu, Keiji Yada, Masatoshi Sato, and Yukio Tanaka, Physical Review Letters, **114** (2015) 096804.
- [2] A.A. Burkov and Leon Balents, Physical Review Letters, **107** (2011) 127205.