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Bogoliubov Fermi surfaces in Time-reversal symmetry breaking superconductors

A novel class of superconductors which break time-reversal symmetry spontaneously have recently been discovered. In this talk, I will discuss recent studies [1, 2] pointing out interesting types of topologically protected Fermi surfaces, called Bogoliubov Fermi surfaces, possible in these superconductors. These Fermi surfaces have characteristic experimental consequences [3] which can be measured by routine experimental techniques used to study unconventional superconductivity.

References:

- 1) Agterberg et. al. PRL 118, 127001 (2017).
- 2) Brydon et. al. PRB 98, 224509 (2018).
- 3) Lapp et. al. arXiv: 1909.10370