

Finite temperature effect

We find for higher chirality (d- or f-wave) superconductors the current can be maximized at finite temperature, near $T_c/2$.



[1] X. Wang, Z. Wang, and C. Kallin, arXiv: 1805.09432 [2] S. Suzuki and Y. Asano, Phys. Rev. B **94**, 155302 (2016)



Spontaneous Edge Current in Higher Chirality Superconductors

Xin Wang, Zhiqiang Wang, Catherine Kallin Department of Physics and Astronomy, McMaster University

Rough surface effect

Surface roughness can reverse the direction of the current for the chiral d-wave case and we study what conditions are necessary for this effect and why.



