TUNNELING CURRENT IN NORMAL METAL- ODD PARITY SUPERCONDUCTOR JUNCTION

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9.7 cm

The properties of tunneling conductance spectra of a normal metal- insulator- spin triplet superconductor junction are investigated. We take into account a higher (p-wave and f-wave)relative angular momentum contributions to the superconducting order parameter and investigate the quasiparticle tunneling for both the unitary and non-unitary pairing states, which are consistent with the experimental data for Sr_2RuO_4. The zero-bias conductance peaks due to the quasiparticle bound states at the interface boundary and the gap-like structure of the conductance depending on the orientation of the junction are obtained and the role of the Andreev reflection in indentifying the pairing symmetry in the odd-parity superconductors is also discussed.

13.4 cm

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