

Ground state and diode effect in superconducting helical systems

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Superconductors with spin-orbit interaction have been actively studied in the last few years. It is known that the ground state of such superconducting systems in a magnetic field undergoes a significant change, which, in particular, is expressed in a spatially modulated order parameter (helical superconductivity). Here we discuss the helical superconducting structures and the diode effect that can occur in such systems. Particularly, we focus on the hybrid heterostructures that operate via the proximity effect.

Bibliography

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