



ID contributo: 44

Tipo: non specificato

Holographic Superconductors in Helical Backgrounds and Homes' Relation

martedì 14 aprile 2015 16:20 (30 minuti)

We present results on a holographic s-wave superconductor in a helically symmetric Bianchi VII symmetric space-time, and discuss the validity of Homes' law in this system. We determine the phase diagram in terms of the helix parameters, and the AC conductivity of the different phases. We in particular show that Homes' relation holds for an regime of intermediary momentum relaxation strength. For both weak and very strong lattice perturbations, i.e. weak and strong momentum dissipation, Homes' relation is violated.

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Classifica Sessioni: Parallel Session