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An analytical approach to compute conductivity of p-wave holographic superconductors

In this work we have analytically deduced the frequency dependent expression of conductivity and the band gap energy in AdS4 Schwarzschild background for p-wave holographic superconductors considering Einstein-Yang-Mills theory. We also used the self consistent approach to obtain the expressions of conductivity for different frequency ranges at low temperature. We then compared the imaginary part of conductivity at low frequency region. The band gap energy obtained from these two methods seem to agree very well.

Email

digantaparai007@gmail.com

Affiliation

University of Hyderabad, PDRF

Author: PARAI, Diganta (University of Hyderabad, PDRF)

Presenter: PARAI, Diganta (University of Hyderabad, PDRF)

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