



p-wave Holographic Superconductors and five-dimensional gauged Supergravity

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We explore five-dimensional ${\c N}=4$ $SU(2)\times U(1)$ and ${\c N}=8$ SO(6) gauged supergravities as frameworks for con densed matter applications. These theories contain charged (dilatonic) black holes and 2-forms which have non-trivial quantum numbers with respect to U(1) subgroups of SO(6). A question of interest is whether they also contain black holes with two-form hair with the required a symptotic to give rise to holographic superconductivity. We first consider the ${\c N}=4$ case, which contains a complex two-form potential A_{∞} which has U(1) charge pm 1. We find that a slight generalization, where the two-form potential has an arbitrary charge pm 1 and pm 1 and pm 1 arbitrary charge pm 1 arbitrary charge pm 1 and pm 1 arbitrary charge pm 1 arbitrary charge pm 1 arbitrary charge pm 1 and pm 1 arbitrary charge pm 1 arbitrary charge pm 1 arbitrary charges pm 1 and pm 1 arbitrary charges pm 1 and pm 1 arbitrary charges pm 1 and pm 1 arbitrary charges pm 1 arbitrary charges pm 1 and pm 1 arbitrary charges pm 1 arbitrary charges pm 1 and pm 1 arbitrary charges pm 1 arbitrary charges pm 1 arbitrary charges pm 1 and pm 1 arbitrary charges pm 1 arbitrary charges pm 1 arbitrary charges pm 1 and pm 1 arbitrary charges pm 1 arbitrary charges pm 1 and pm 1 arbitrary charges pm 1 arbitrary charges pm 1 arbitrary charges pm 1 arbitrary charges pm 1 and pm 1 arbitrary charges pm 1 arbitrar

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