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Forum de Physique Statistique @ ENS

Mercredi 10 Novembre 2021, 14 :30
LPENS, L367(write to xiangyu.cao@ens.fr for zoom link)
Domaines : cond-mat.stat-mech

Titre : *A semi-holographic model of non-Fermi liquids*

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Résumé : *In recent years, the holographic correspondence has been used in many contexts to explore properties of strongly coupled systems that are hard to explain by conventional methods. One instance of such systems is given by the high-T superconductors, which exhibit non-Fermi liquid behavior in the so-called "strange metal" phase above the critical temperature. I will discuss the holographic constructions of these systems, and in particular a model that I and my collaborators are currently investigating, based on a semi-holographic approach. I will show that under certain conditions an emergent linear-in-T behavior of the resistivity appears over a significant range of temperatures.*
