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Monopoles and magnetic oscillations in holographic liquids

Wednesday, 15 April 2015 11:20 (30 minutes)

We study monopoles and the role of magnetic field in holographic models of compressible phases of quantum matter, both from a bottom-up and a top-down approach. The former extends previous electron star models to include a magnetic field at finite temperature, while the latter is based on D-brane constructions. I will present these models and their most interesting features, such as quantum oscillations which differ from those predicted by Fermi liquid theory.

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Session Classification: Morning session