

Charged D3-D7 plasmas

Friday, 29 March 2013 09:40 (40 minutes)

I will focus on D3-D7 systems whose low energy dynamics is described by finite temperature N=4 Super Yang-Mills (and more general quiver theories) in the presence of dynamical massless fundamental matter fields at finite baryon charge density. I will present the holographic dual charged black hole solutions which are perturbative in the flavor backreaction but exact in the charge density. I will then discuss thermodynamical and hydrodynamical properties of these solutions and comment on their validity regimes.

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