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Diffusion Coefficient with higher order gravity corrections in the Soft-Wall Model of Holographic QCD

Saturday, 6 August 2016 18:00 (2 hours)

We study the Renormalization Group (RG) flow of transport properties by holographic QCD. Diffusion constant and shear viscosity at the cut-off have been calculated in the soft wall model including the Gauss-Bonnet (GB) couplings in the gravity. An explicit relation between the two has been shown for Einstein–Maxwell system first and then with gauss- bonnet corrections in the soft wall approach.

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