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Holographic three-dimensional YM with compressible matter

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We present the holographic dual of strongly coupled, three-dimensional Yang-Mills theories with massless flavour in the Veneziano limit at finite quark density. The fundamental degrees of freedom are modelled by a distribution of D6-branes backreacting the geometry of a stack of colour D2-branes. A finite chemical potential corresponds to the time component of a gauge field living on the flavour branes. We discuss the RG flows triggered by the presence of the charge density and argue that generically the IR is governed by a fixed point with particular scaling properties. We finally comment on interesting observables sensible to the different regimes of the system.

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