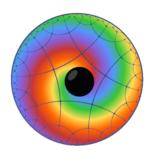
## **Gauge/Gravity Duality 2015**



Contribution ID: 22 Type: not specified

## Holographic three-dimensional YM with compressible matter

Tuesday, 14 April 2015 15:20 (30 minutes)

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.

Presenter: FAEDO, Anton

Session Classification: Parallel Session