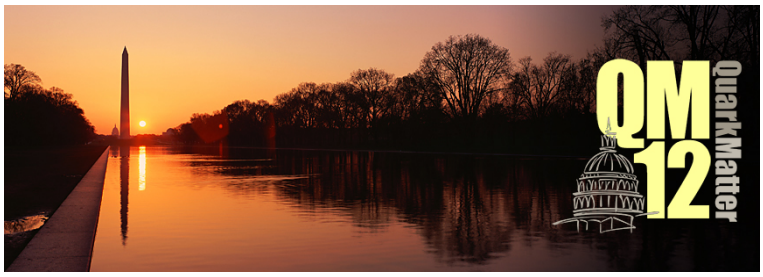

Contribution ID: **163** Type: **Poster**

Can falling strings in deformed AdS geometries account for the surprising transparency of the sQGP at LHC?

Thursday 16 August 2012 16:00 (2 hours)

We present new solutions for holographic falling string models of light quark jet energy loss that suggest a linear path dependence of energy loss, dE/dx ~ x^1, without the nonlinear x^2 dependence assumed previously. This effect, combined with non-conformal deformations and higher curvature corrections of AdS geometry, is shown to be able to account for the small relative reduction of the jet-medium coupling observed via RAA(pT) at LHC in the 20-50 GeV pT region.

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Session Classification: Poster Session Reception

Track Classification: New theoretical developments