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NLO Dynamics of Falling Strings in AdS/CFT

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We use the gauge/gravity duality to compute the penetration depth of a quark moving through a strongly-coupled $N = 4$ $SU(N_c)$ super-symmetric Yang-Mills plasma. Using numerical techniques, we study the effect of next-to-leading order fluctuations on the holographic string in AdS_5 -Schwarzschild.

Apply to be considered for a student award (Yes / No)?

Yes

Level for award (Hons, MSc, PhD, N/A)?

Hons

Main supervisor (name and email) and his / her institution

Dr W.A. Horowitz, University of Cape Town

Would you like to submit a short paper for the Conference Proceedings (Yes / No)?

Yes

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