**SAIP2017** 



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## NLO Dynamics of Falling Strings in AdS/CFT

Thursday, 6 July 2017 14:40 (20 minutes)

We use the gauge/gravity duality to compute the penetration depth of a quark moving through a stronglycoupled N = 4 SU(N<sub>c</sub>) super-symmetric Yang-Mills plasma. Using numerical techniques, we study the effect of next-to-leading order fluctuations on the holographic string in AdS<sub>5</sub>-Schwarzchild.

### Apply to be<br> considered for a student <br> &nbsp; award (Yes / No)?

Yes

#### Level for award<br>&nbsp;(Hons, MSc, <br> &nbsp; PhD, N/A)?

Hons

#### Main supervisor (name and email)<br>and his / her institution

Dr W.A. Horowitz, University of Cape Town

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

Yes

**Primary author:** Ms MOODLEY, Nicole (University of Cape Town)

**Co-author:** Dr HOROWITZ, William (University of Cape Town)

Presenter: Ms MOODLEY, Nicole (University of Cape Town)

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