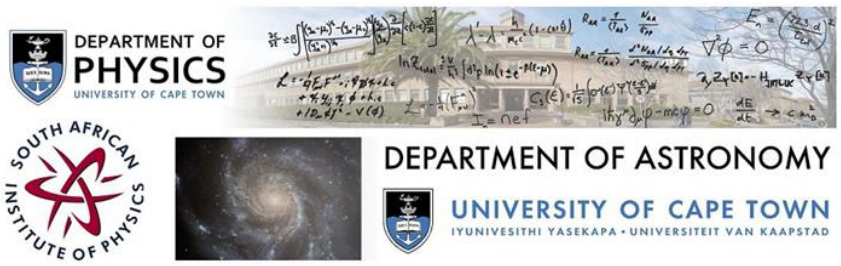

Contribution ID: **341** Type: **Oral Presentation**

Strings with Finite Endpoint Mass

Wednesday, 6 July 2016 14:00 (40 minutes)

Abstract content
   (Max 300 words)
Formatting &
Special chars

We compute the motion of strings whose endpoints are coupled to massive point particles in an AdS-Schwarzschild geometry. Our work generalizes the usual AdS/CFT dictionary correspondence between a fundamental heavy quark in a field theory and its representation in the string theory.

We then compute the stopping distance and differential energy lost by our heavy quark strongly coupled to an N = 4 SYM plasma via the AdS/CFT correspondence, compare the result to weak-coupling calculations, and comment on the relevance of our work to the quark-gluon plasma phenomenology investigated at the multi-billion euro Relativistic Heavy Ion Collider (RHIC) and Large Hadron Collider (LHC).

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

No

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

N/A

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

N/A

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

Yes

Please indicate whether
this abstract may be
published online
(Yes / No)

Yes

Primary author: Dr HOROWITZ, William (University of Cape Town)

Presenter: Dr HOROWITZ, William (University of Cape Town)

Session Classification: Theoretical and Computational Physics (1)

Track Classification: Track G - Theoretical and Computational Physics