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## Strings with Finite Endpoint Mass

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**Abstract content** &nbsp; (Max 300 words) <a href="http://events.saip.org.za/getFile.py/?target=\_blank">Formatting & Special chars</a>

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 submit a short paper for the Conference Proceedings (Yes / No)?**

Yes

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

Yes

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**Session Classification:** Theoretical and Computational Physics (1)

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