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Strings with Finite Endpoint Mass

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Abstract content
 (Max 300 words)
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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).

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