## XIII Mexican School of Particles and Fields



Contribution ID : 169

Type : not specified

## Quark Dynamics from AdS/CFT

Wednesday, 8 October 2008 19:00 (2:00)

## Abstract content

## Summary

In the context of the AdS/CFT correspondence, the dynamics of a heavy quark in strongly-coupled N=4 supersymmetric Yang-Mills is codified by a string moving on anti-de Sitter spacetime. In previous work, Mikhailov studied this system at zero temperature, and was able to determine analytically the dispersion relation and rate of energy loss for arbitrary motion of the quark. Although some particular solutions have been found for the finite temperature case, a general solution is not known. We discuss why such a generalization must be possible and the steps we have taken to understand it.

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Session Classification: Posters