



Contribution ID: 137

Type: **Parallel Talk**

Cycling in the Throat

Monday 30 July 2007 17:10 (20 minutes)

I will discuss the dynamics of a probe D3-brane propagating in a warped string compactification. I will focus in the exploration of the trajectories obtained from giving the brane angular momentum in the extra dimensions. I will show that, in general, angular momentum creates a centrifugal barrier, causing bouncing as well as cyclic cosmologies from a “mirage” point of view. I will also comment on how these results get modified once the effects of coupling the brane action to gravity, are taken into account.

Author: Dr ZAVALA, Ivonne (Durham University)

Presenter: Dr ZAVALA, Ivonne (Durham University)

Session Classification: Theoretical Models (String Theory and Formal Aspects of SUSY) 5

Track Classification: Theoretical Models (String Theory and Formal Aspects of SUSY)