

Institut Ruđer Bošković
ZAVOD ZA TEORIJSKU FIZIKU
Bijenička c. 54
ZAGREB, HRVATSKA

SEMINAR ZAVODA ZA TEORIJSKU FIZIKU

(Zajednički seminari Zavoda za teorijsku fiziku,
Zavoda za eksperimentalnu fiziku IRB-a i Fizičkog odsjeka PMF-a)

AdS braneworld with backreaction

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Abstract:

We review the tachyon model derived from the dynamics of a 3-brane moving in the AdS-5 bulk. The bulk geometry is based on the RandallSundrum II model extended to include the fluctuations of the interbrane distance - the radion. The effective tachyon Lagrangian is modified due to the back-reaction of the dynamical brane on the bulk geometry. It will be demonstrated that the tachyon fluid obeys a linear barotropic equation of state which may be interpreted as warm dark matter.

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