

EHQG-KMI Seminar

title :

Cosmological brane systems in warped spacetime

speaker :

Masato Minamitsuji (Kyoto University)

date/time :

Feb. 26 2013 (Tue) 5:00 PM

abstract :

We discuss the time-dependent brane solutions in higher-dimensional supergravity theories. We particularly focus on the dynamical extensions of the intersecting brane solutions involving three branes. We also show that in the near horizon limits, where the time dependence is negligible, these branes describe warped AdS spacetimes as in the corresponding static solutions. We finally examine the lower-dimensional cosmological dynamics obtained after compactifications of the higher-dimensional solutions and show the solutions we have found give the four-dimensional universe with power-law expansion.

place :

ES 635 (Science Symposia)