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Holographic walking technicolor and stability of technibranes

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Abstract:

The gravity dual to a N=1 SUSY gauge theory which exhibits an approximately conformal "walking" region while strongly interacting is considered. Stacks of D7-D7bar techni-branes corresponding to the addition of techni-fermions in the gauge theory are embedded in the ten dimensional space-time. Fluctuations of the embedded branes into complementary space are studied. The scalar and pseudoscalar meson mass spectrum is obtained as a function of the bulk coordinate distance cut-off, and the range of stability of the brane embedding is determined.

Author: Prof. TER VELDHUIS, Tonnis (Macalester College)

Co-authors: LOVE, Sherwin (purdue university); Prof. CLARK, Thomas (Purdue University)

Presenter: Prof. TER VELDHUIS, Tonnis (Macalester College)

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