



Contribution ID: 43

Type: **not specified**

Meson and baryon excitations in AdS/QCD

Thursday 27 September 2007 18:00 (30 minutes)

We construct an approximate holographic dual of QCD from experimental hadron properties. Conformal symmetry breaking and other IR effects are described exclusively by deformations of the anti-de Sitter background metric. This framework allows us to reproduce the empirically found linear square-mass trajectories of universal slope for radially and orbitally excited hadrons. The predictions for the light hadron spectrum include new relations between ground state masses and trajectory slopes and are in good overall agreement with experimental data.

Based on preprint

<http://www.slac.stanford.edu/spires/find/hep/www?eprint=arXiv:0705.1857>

Primary author: Dr BEYER, Michael (Institut für Physik, Univ. Rostock)

Co-authors: Dr FORKEL, Hilmar (CTA ITA Sao Jose dos Campos, BR); Prof. FREDERICO, Tobias (CTA ITA Sao Jose dos Campos, BR)

Presenter: Dr BEYER, Michael (Institut für Physik, Univ. Rostock)

Session Classification: String theory (1) (continued)