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## Soft-Wall Light Dilatons

*Tuesday 10 May 2016 14:30 (15 minutes)*

We present holographic Randall-Sundrum like models of spontaneously broken conformal symmetry that realize a light dilaton and suppressed cosmological constant from condensates. A “soft-wall” realization of the RS geometry is generic in such cases, where the IR brane plays a lesser role as a cutoff for large curvature effects, and low energy observables such as the spectrum of states are largely insensitive to its position. Large hierarchies are easier to realize as the stabilizing term in the dilaton potential is automatically suppressed by a small Goldberger-Wise scalar mass. We also present analysis of the model at finite temperature.

### Summary

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