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## Braneworld cosmology and holography

*Thursday, April 27, 2017 5:30 PM (15 minutes)*

We consider a model of a holographic braneworld universe in which a cosmological fluid occupies a 3+1 dimensional brane located at the boundary of the asymptotic AdS bulk. We combine the AdS/CFT correspondence and the second Randall-Sundrum

(RSII) model to establish a relationship between the RSII braneworld cosmology and the boundary metric induced by the time dependent bulk geometry. In the framework of the Friedmann Robertson Walker cosmology we discuss some physically interesting scenarios involving the RSII and holographic braneworlds.

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