## Looking through the black hole horizon in AdS/CFT

Thursday 7 October 2010 11:00 (30 minutes)

We study a holographic description of the region behind a black hole horizon using the AdS/CFT correspondence. In particular we discuss the relationship between gauge theory observables adapted to external and infalling bulk observers, and the relationship between physics near the horizon and near the singularity Using D-brane probes we find some sharp signatures of the singularity. (Based in part on arXiv:0904.3922 and on ongoing work in collaboration with G. Horowitz, S. Shenker, and E. Silverstein).

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Session Classification: Old and New Paradigms in Quantum Gravity