

Abstract Submitted
for the 4CF06 Meeting of
The American Physical Society

Stability of D1/D5 Black Strings JARED GREENWALD, ERIC HIRSCHMANN, Brigham Young University, NUMERICAL RELATIVITY TEAM — We are interested in the stability of black strings. In particular, we are investigating the Gregory-Laflamme instability for a broader class of black strings. We consider a model from low energy string theory in six dimensions, often referred to as the D1/D5 system. In an effort to analyze this system, we investigate the stability of the corresponding black string through perturbative methods. We describe a solution with non-constant dilaton and then sketch the perturbation method and our numerical scheme for finding indications of instability.

Jared Greenwald
Brigham Young University

Date submitted: 11 Sep 2006

Electronic form version 1.4