

Abstract Submitted
for the SES07 Meeting of
The American Physical Society

Quasi-normal modes of AdS black holes and RHIC¹ GEORGE
SIOPSIS, University of Tennessee — I calculate analytically low frequency quasi-normal modes of gravitational perturbations of AdS Schwarzschild black holes. I arrive at analytic expressions which are in agreement with their counterparts from linearized hydrodynamics, in accordance with the AdS/CFT correspondence. The results are also in good agreement with results of numerical calculations. I discuss their relevance to the quark-gluon plasma formed in heavy ion collisions at RHIC.

¹This work was supported in part by the Department of Energy under grant DE-FG05-91ER40627.

George Siopsis
University of Tennessee

Date submitted: 17 Aug 2007

Electronic form version 1.4