

Abstract Submitted
for the NWS12 Meeting of
The American Physical Society

Estimates of the Neutrino Dynamics of Black Hole-Neutron Star Mergers M. BRETT DEATON, MATTHEW D. DUEZ, Washington State University, SPEC COLLABORATION — In an attempt to further understand black hole-neutron star systems (BHNS) as potential gamma ray burst central engines we explore the dynamics of BHNS mergers of low mass ratio and high spin. Our simulations include radiative cooling through a leakage approximation. We examine the neutrino signal, the remnant disk dynamics, and the energy deposited by neutrino pair annihilations around the disk.

M. Brett Deaton
Washington State University

Date submitted: 14 Sep 2012

Electronic form version 1.4