

Abstract Submitted
for the APR15 Meeting of
The American Physical Society

Exploring the Model Dependence of Electromagnetic Signals in Circumbinary Disk Simulations SCOTT NOBLE, University of Tulsa, MANUELA CAMPANELLI, Rochester Institute of Technology, JULIAN KROLIK, Johns Hopkins University, BRUNO MUNDIM, Goethe University Frankfurt, HIROYUKI NAKANO, Kyoto University, YOSEF ZLOCHOWER, Rochester Institute of Technology — In this talk, we will present our latest results on 3-d GRMHD simulations of accreting binary black holes during the post-Newtonian inspiral phase of their evolution. The goal of our work is to explore whether these systems provide a unique means to identify and characterize them with electromagnetic observations. We will present results that show how our predicted light curves vary with respect to mass ratio, binary separation, amount of accreting magnetic flux, and the order of accuracy in the post-Newtonian approximation.

Scott Noble
University of Tulsa

Date submitted: 09 Jan 2015

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