Abstract Submitted
for the APR09 Meeting of
The American Physical Society

Binary Black Hole simulations using multi-block domains ENRIQUE PAZOS, MANUEL TIGLIO, University of Maryland, LARRY KIDDER, Cornell University, OLEG KOROBKIN, Louisiana State University, MATT DUEZ, SAUL TEUKOLSKY, Cornell University — We present results from the simulation of equal mass binary black holes using a multiple block domain decomposition. Our scheme makes use of high-order finite difference operators, excision and the generalized harmonic formulation of Einstein's equations. We are able to compute wave-forms and compare them with numerical solutions obtained by pseudo-spectral methods.

Enrique Pazos
University of Maryland

Date submitted: 26 Feb 2009 Electronic form version 1.4