

Abstract Submitted  
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**Black hole - neutron star simulations with Bowen-York type data** PABLO LAGUNA, MICHAEL CLARK, TANJA BODE, DEIRDRE SHOEMAKER, Georgia Tech, CARL RODRIGUEZ, Northwestern University — We introduce an approach for the construction of initial data representing black hole - neutron star binaries based on Bowen-York type solutions to the momentum constraint that account for the presence of matter sources. We demonstrate the effectiveness of this initial data approach with results from simulations of mixed binary systems that include estimates of gravitational wave emission.

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