

Abstract Submitted  
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**Numerical Relativity reaching into the land of Post-Newtonian Theory** BELA SZILAGYI, Caltech, SXS COLLABORATION  
— Extensive code improvement of the Spectral Einstein Code has made it now possible for us to perform simulations that start at frequencies where Post Newtonian Theory is accurate. As a first such run we have performed a 175 orbit, mass-ratio 7, non-spinning BBH run at several resolutions. Runs of this type open the gate towards a new level of testing of the various BBH waveform approximants. The important question of “how long should runs be” receives a new meaning. The talk will focus on current status as well as future plans for these ultra-long simulations.

Bela Szilagyi  
Caltech

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