

Abstract Submitted
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Towards mass-production of binary black hole simulations ABDUL MROUE, HARALD PFEIFFER, CITA, University of Toronto, SXS COLLABORATION — Numerical simulations of black hole binaries (BH-BH) have matured at an astonishing rate over the last years. Nevertheless, there is a pronounced dearth of accurate simulations covering many inspiral orbits for precessing BH-BH binaries. This talk reports on an effort to significantly increase the number of high-quality BH-BH waveforms using the Spectral Einstein code (black-holes.org/SpEC). We will describe our approach to efficiently compute low-eccentricity orbital parameters, detail our current set of simulations, and present first scientific results from these simulations, focusing on the inspiral phase of the BH-BH.

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