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Accurate Evolutions of Orbiting Black Hole Binaries Without Excision YOSEF ZLOCHOWER, MANUELA CAMPANELLI, CARLOS LOUSTO, The University of Texas at Brownsville — We present a new technique for evolving moving black holes without excision. Our technique, which is based on a regularization of the standard ‘puncture’ approach to the BSSN evolution system, allows for stable evolution of orbiting black-hole binaries. We used this technique to evolve a set of pre-ISCO binaries and show the resulting waveforms as well as the tracks of the individual horizons.

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