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Conformal thin-sandwich puncture initial data for boosted black holes MARK HANNAM, University of Texas at Brownsville, GREG COOK, Wake Forest University — We have applied the puncture approach to conformal thin-sandwich black-hole initial data. I will present a procedure to numerically construct conformal thin-sandwich puncture (CTSP) initial data for multiple black holes, each with non-zero linear momentum, and present results for single boosted-black-hole initial-data sets. Conformally flat solutions for a boosted black hole are found to have the same maximum gravitational radiation content as the corresponding Bowen-York solution in the conformal transverse-traceless decomposition.

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