Prospects for observing dynamically formed stellar mass black hole binaries with gravitational waves MATTHEW BENACQUISTA, Univ of Texas, Brownsville — Stellar mass black hole binaries are expected to be produced through dynamical interactions within globular clusters. Dynamically formed black hole binaries are likely to have higher chirp masses than binaries formed in the field. We show that these systems are observable with space-based gravitational wave detectors at extragalactic distance as far as the the Virgo cluster.

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