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Using Gamma-Ray Bursts as Cosmological Probes

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Although they are not standard candles, gamma-ray bursts (GRBs) are quite definitely cosmological objects, with some of the highest redshifts observed. The problem remains how to use GRB observables to construct a usable Hubble diagram. Several correlations between observables and the energetics have been noted, e.g. Amati et al. (2002) and Yonetoku et al. (2004), but it is not clear whether these suffer selection effects. I will discuss recent progress toward understanding the origin of these correlations that opens a road towards the GRB Hubble diagram.

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