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Gamma-ray bursts as cosmological probes

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Gamma-ray bursts are among the most luminous transients in the Universe, a characteristic that permits us to observe them at very high redshifts. For this reason, many efforts have been made to identify a method to use GRBs as cosmological distance indicators through the use of luminosity correlations between their high-energy observable quantities. In this talk, I will review some of the most promising methods proposed so far to standardize GRBs and discuss if they can provide a significant contribution to cosmology.

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