

Towards a More Standardized Candle Using GRB Energetics & Spectra



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Abstract

The use of γ-ray bursts (GRBs) energetics for cosmography has long been advanced as a means to probe to redshifts beyond those possible with Type Ia SNe, to the epoch of deceleration. However, though relatively immune to systematic effects of dust extinction, the prompt energy release in GRBs, even when corrected for jetting geometry, is far from being a standard candle. Recently, two groups (Dui et al. and Ghirlanda et al.) have claimed that by using the newly discovered relation between the apparent geometry-corrected energies (Ey) and the rest frame prompt burst spectrum (Ep), GRBs now provide meaningful constraints on Ωs., Ωs and the quintessence parameter w. In presenting the first self-consistent formalism for correcting GRB energies with a thorough accounting for observational uncertainties, we demonstrate that the current sample of 18 GRBs is simply inadequate for cosmography when compared to results from Type Ia supernovae, large-scale structure, and the microwave background. The proper use of the relation clearly brings GRBs an impressive step closer toward a standardizable candle, but until the physical origin of the Ep-Ey relation is understood, additional corrections are discovered, and a larger and homogeneous determination of prompt-burst and affectly wherever the wait.

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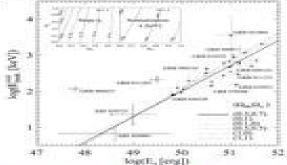
44.5

40.0

9.0

The Ep-Ey relation

Although the E_r - E_l relation is a highly significant correlation (Spearman $\rho = 0.88$, null probability = 1.1 x 10^{+0}), the relation itself is not well fit by a power law $[E_r = s(E_r/10^{10} erg)^{4}]$ across a range of cosmologies, with a reduced $\chi^2_{-1} = 3.22$ (16 dof) in the standard cosmology ($\Omega_{\rm N}$, $\Omega_{\rm N}$, $h_{\rm m}$) = (0.3, 0.7, 1) and a minimum $\chi^2_{-1} = 3.20$. The correlation, however, does provide a simple empirical correction to help standardize GRB energytics.



The (weak) essentiagical dependence of the E_a - E_c -relation. The best fit power-law relation for a representative set of cosmologies are shown as a series of lines. Only the data for a standard cosmology of (Ω_b , Ω_b , n_b) = (0.3.0.7,1) is shown for clarity with upper-lower limits indicated with arrows. Notable outliers are indicated with a large square surrounding the data points. The best fit values of the slope (η) and normalization (κ) are shown inset. Note that the data for a standard cosmology (with best fit $\eta = 0.70 \pm 0.07$) essentially brackets the fits across all cosmologies, excepting only the extreme cosmologies with $\Omega_b = 0$ and $\Omega_b = 1$.

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Ameri, L. et al. 2002, A&A, 190, 81 Bloom, J.S., Frail, D.A. & Kalkarni, S.R. 2003, ApJ, 594, 674 Dai, Z.G., Liung, E.W., and Xu, D., 2004, ApJ, 612, L101 Frail et al. 2001, ApJ, 562, L58 Friedman, A.S. and Bloom, J.S., ApJ sambined (auto-ph/9408411) Ghirlanda et al. 2004a, ApJ, 613, L13 Ghirlanda et al. 2004b, ApJ, 613, L13



WWW,cosmicbooms.mct: A Clearinghouse for GRB and Afterglow-Observables and Energetics. Here you will find a compilation of observables tjet brook time, density, fluorous, etc.) useful in determining GRB energies, constraining the Ghiclanda and Anuati relations, and beyond. All of the data contained herein are public.

The GRB Hubble Diagram

GRiffs results Manager and cosmology? Shown is the improvement of GRB Hubble diagrams for (Ω₀, Ω₁, $h_{N}\rangle = (0.3, 0.7, 1)$. From top to bettom there is a continual reduction in scatter after applying corrections to the energetics (i.e. different standard candle assumptions). Elso is the isotropic equivalent prompt y-ray energy release. Ey= Eiso-fb is the geometry-corrected energy where fb=1-cos(0) is the bearning. finaction. med. E-(x:E-y) is a further correction, making use the Ea-Ea relation. Future empirical correlations, perhaps to be found in Swift data, will be necessary for GRB standard candles to be competitive with Type In SNe as cosmological distance indicators.

48 46 44 42 400 χ^2 = 250.38 (33 dof). 200 50 Distance Modulus 48 465 44.6 42 40 20.00 50 468 465 44 42 40 2,499 (116 doct): 348

Cosmological Parameter Determination



 χ^2 contours for the GRB Hubble diagram constructed using the corrected energy Ey,cor. Top panel includes errors on correlation slope η and intercept κ . Bottom panel assumes fit parameters are known a priori. Although the fits are marginally acceptable (minimum χ^2 , = 2.2, [top]), the shape in the χ^2 surface and hence the best fit values and uncertainties for the and Ω , are dominated by outliers in the E_x-E_yrelation, and thus not yet meaningful.

Conclusion

Although cautious optimism is warranted with the addition of an order of magnitude more data, and possible new empirical corrections to GRB energetics in the Swift eta, GRBs are currently not useful for cosmography.

Acknowledgements. A.S.F. acknowledges the support of a National Science Foundation Graduate Research Fellowship and the Harvard Astronomy Department. J.S.B. gratefully acknowledges support from the Harvard Society of Fellows and the Harvard-Smithsonian Center For Astrophysics. We think R. Natayan, H. Kirshner, and the anonymous referee for useful discussions and thoughtful comments.

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Richard A. Schmidt

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