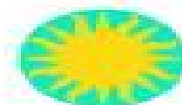




# Towards a More Standardized Candle Using GRB Energetics & Spectra



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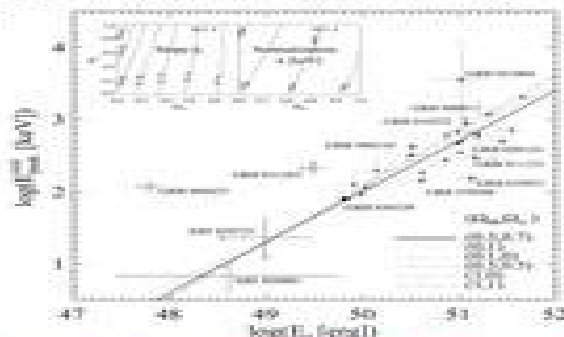
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## Abstract

The use of  $\gamma$ -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 (Dai et al. and Ghislanda et al.) have claimed that by using the newly discovered relation between the apparent geometry-corrected energies ( $E_\gamma$ ) and the peak in the rest frame prompt burst spectrum ( $E_p$ ), GRBs now provide meaningful constraints on  $\Omega_b$ ,  $\Omega_\Lambda$ , 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  $E_p$ - $E_\gamma$  relation is understood, additional corrections are discovered, and a larger and homogeneous determination of prompt-burst and afterglow observables exists (e.g., from *Swift*), bold claims about the utility of GRBs for cosmography will have to wait.

## The $E_p$ - $E_\gamma$ relation

Although the  $E_p$ - $E_\gamma$  relation is a highly significant correlation (Spearman  $\rho = 0.88$ , null probability  $= 1.1 \times 10^{-10}$ ), **the relation itself is not well fit by a power law** [ $E_\gamma = \alpha(E_p/10^{51} \text{erg})^\beta$ ] across a range of cosmologies, with a reduced  $\chi^2_r = 3.22$  (16 dof) in the standard cosmology ( $\Omega_b$ ,  $\Omega_\Lambda$ ,  $h_0$ ) = (0.3, 0.7, 1) and a minimum  $\chi^2_r = 3.20$ . The correlation, however, does provide a simple empirical correction to help standardize GRB energetics.

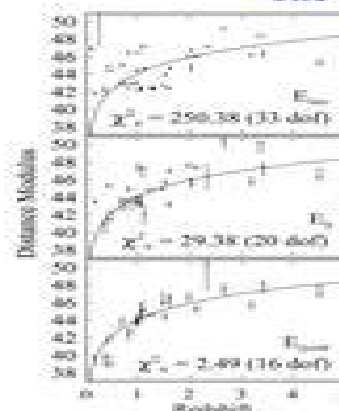


**The (weak) cosmological dependence of the  $E_p$ - $E_\gamma$  relation.** The best-fit power-law relation for a representative set of cosmologies are shown as a series of lines. Only the data for a standard cosmology of ( $\Omega_b$ ,  $\Omega_\Lambda$ ,  $h_0$ ) = (0.3, 0.7, 1) is shown for clarity 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 ( $\eta$ ) and normalization ( $\kappa$ ) 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  $\Omega_\Lambda = 1$ .

## References

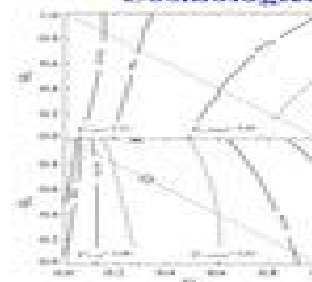
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## The GRB Hubble Diagram



**Are GRBs really useful for cosmology?** Shown is the improvement of GRB Hubble diagrams for ( $\Omega_b$ ,  $\Omega_\Lambda$ ,  $h_0$ ) = (0.3, 0.7, 1). From top to bottom there is a continual reduction in scatter after applying corrections to the energetics (i.e. different standard candle assumptions).  $E_{iso}$  is the isotropic equivalent prompt  $\gamma$ -ray energy release,  $E_\gamma = E_{iso}fb$  is the geometry-corrected energy where  $fb = 1 - \cos(\theta)$  is the beaming fraction, and  $E_{\gamma,cor} = E_\gamma(\alpha/E_p)^{1/\eta}$  is a further correction, making use the  $E_p$ - $E_\gamma$  relation. **Future empirical correlations, perhaps to be found in *Swift* data, will be necessary for GRB standard candles to be competitive with Type Ia SNe as cosmological distance indicators.**

## Cosmological Parameter Determination



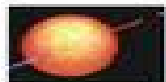
$\chi^2$  contours for the GRB Hubble diagram constructed using the corrected energy  $E_{\gamma,cor}$ . Top panel includes errors on correlation slope  $\eta$  and intercept  $\kappa$ . Bottom panel assumes fit parameters are known *a priori*. Although the fits are marginally acceptable (minimum  $\chi^2_r = 2.2$ , [top]), **the shape in the  $\chi^2$  surface and hence the best fit values and uncertainties for  $\Omega_b$  and  $\Omega_\Lambda$  are dominated by outliers in the  $E_p$ - $E_\gamma$  relation, 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* era, **GRBs are currently not useful for cosmography.**

**Acknowledgments:** 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 thank R. Narayan, R. Kirshner, and the anonymous referee for useful discussions, and thoughtful comments.

**[www.cosmicbooms.net](http://www.cosmicbooms.net):** A Clearinghouse for GRB and Afterglow Observables and Energetics. Here you will find a compilation of observables (jet break time, density, fluence, etc.) useful in determining GRB energies, constraining the Ghislanda and Amati relations, and beyond. All of the data contained herein are public.



# Smithsonian Contribution To Astroph Volume 8

**Richard A. Schmidt**



## Smithsonian Contribution To Astroph Volume 8:

*NASA Technical Note*, 1972      **NASA Technical Report**, 1969      **Determination of Meteoroid Environments from Photographic Meteor Data** Charles C. Dalton, 1969 A mathematical model is used to represent 8pik s 1958 physical theory of meteors in a form convenient for programming the computation of meteoroid photometric mass values Sub samples of 333 photographic meteors from McCrosky and Posen s sample are selected with respect to magnitude scaled for minimum velocity A statistical comparison between the 1958 8pik result and the 1933 8pik provisional result the Harvard Meteor project basis for mass values lative flux in absolute units for mass momentum and energy are given separately for the terrestrial influx and for the lunar and interplanetary vehicle onfluxes      *Gemini Midprogram Conference, Including Experiment Results*, 1966 Gemini spacecraft and launch vehicle development and performance flight operations mission results and physical science and biomedical experiments Gemini midprogram conference      *The Critical Inclination Problem in Satellite Orbit Theory* William A. Mersman, 1962 Solutions of the satellite orbit problem are obtained that do not exhibit singularities at the critical inclination angle Series representations are obtained Their region of convergence are exhibited and quantitative measures of their speeds of convergence are provided for use in numerical computations p 1      *Research Report*, 1967      **Research Report - Corps of Engineers, U.S. Army, Cold Regions Research and Engineering Laboratory** Cold Regions Research and Engineering Laboratory (U.S.), 1967      *The MSFC/J70 Orbital Atmosphere Model and the Data Bases for the MSFC Solar Activity Prediction Technique* Dale Leroy Johnson, 1985      Periodicals and Serials Received in the Library of the National Bureau of Standards as of October 1965 United States. National Bureau of Standards. Library, Natalie J. Hopper, 1966 The publication which is a revision of the NBS Monograph 57 lists alphabetically the periodicals and serials both American and foreign that are currently being received in the Library of the National Bureau of Standards Approximately 2 400 titles are cited together with call numbers indicating the location of bound volumes in the Library Although this information was compiled primarily for the use of the Bureau s scientific staff it is also of value to libraries scientific and technical organizations and research workers Author      *IGY General Report Series World Data Center A*, 1960      Monthly Weather Review, 1968      **NASA Technical Memorandum**, 1970      **United States Government Manual**, 1969      United States Government Organization Manual, 1969      A Survey of Data on Microscopic Extraterrestrial Particles Richard A. Schmidt, 1965      Geomagnetic- and Interplanetary-magnetic-field Environment of an Earth Satellite Edward W. Leyhe, 1962      U.S. Standard Atmosphere Supplements, 1966, 1967      *U.S. Standard Atmosphere Supplements, 1966* United States. National Aeronautics and Space Administration, 1966      U.S. Standard Atmosphere Supplements, 1966 United States Committee on Extension to the Standard Atmosphere, 1967      *U. S. Standard Atmosphere, 1962* United States Committee on Extension to the Standard Atmosphere, 1962

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