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## Prospects in dark energy cosmology through the calibrated $E_p$ -Eiso correlation

*Tuesday, 9 July 2024 15:00 (30 minutes)*

Using a new sample consisting of 264 GRBs with measured redshifts and spectra, we applied different techniques to calibrate the  $E_p$ -Eiso correlation against the type Ia SN data to build a calibrated GRB Hubble diagram. We tested the possible redshift dependence of the correlation and its effect on the Hubble diagram to investigate the tension with the flat  $\Lambda$ CDM model and the dark energy equation of state.

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