

Observational constraints on the energy source of gamma-ray bursts and associated supernovae

Wednesday, 18 May 2022 11:05 (35 minutes)

I will discuss various constraints, derived from radio, optical and gamma-ray observations, on the properties of the energy source in long gamma-ray bursts. First, I will present a study of the observational imprint of a jet driven explosion and compare it to available data to determine whether the jet can generate both the gamma-ray burst and the associated supernova. Second, I will show an analysis of the prompt gamma-ray emission that constrains the time scale over which the gamma-ray emission shuts off.

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