

Abstract

I am going to present the first results of my 4 weeks training here in Bologna, and, a selection of recent results of the Hungarian High Energy Astronomy Research Team (HEART) on gamma ray bursts (GRBs) and GRB

host galaxies. I will mainly report our attempts to derive the parameters of GRB host galaxies through SED (Spectral Energy Distribution) fitting. We have performed photometry on Herschel images with multiple methods, determining fluxes or upper limits for 45 GRB hosts, and fitted their SEDs with multi-wavelength photometric data collected from databases and articles. Infrared observations are important to constrain the dust emission component. To this aim, here in Bologna I analyzed SPITZER data of GRB hosts using the CuTEx routine (developed for deblending sources in crowded fields) to determine their fluxes which will be included in the SED fitting.

I will also shortly present other results obtained from the HEART group on: the large scale distribution of GRBs; the parameters of the intrinsic ISM and a tool to find short GRBs.