

GRB hosts and environments in close-up (#1321)

Christina Thöne¹

¹IAA - CSIC, Granada, Spain

GRB hosts are star-forming galaxies but often too distant to be studied in detail by resolved observing techniques. This also makes it difficult to pin down the exact properties of the HII region of the GRB and hence the progenitor as properties get smeared out if a larger region or only the entire galaxy can be studied. In this talk we will present the results of recent resolved studies of low redshift GRB hosts at optical wavelengths both with IFUs and long-slit spectroscopy. Particularly important is the comparison between the GRB region and the galaxy as a whole in order to know how trustworthy integrated measurements at higher redshifts. Although GRB sites are probably less extreme in terms of metallicity, age and star-formation than demanded by progenitor models, they do tend to occur in some of the more extreme regions within their hosts. Furthermore, we will present kinematical studies of a sample of GRB hosts which can give us important clue on the processes of star-formation in GRB hosts. In the future we'll be able to extend those studies to higher redshifts using upcoming facilities, allowing us to study GRB sites at redshifts beyond one and extending to much larger, statistical samples.