

Scientific program

“Galaxies meet GRBs at Cabo de Gata”

Final version

Sunday, Sept. 22

19:00 – 20:30 **Registration**
Cala Grande Lobby

Monday, Sept. 23

8:30 – 09:15 Registration (Cala Grande Lobby)

09:15 – 09:30 C. Thöne: *Welcome and introduction to the science of the conference*

09:30 – 09:40 A. de Ugarte Postigo: *Presentation of Cabo de Gata*

Session: Massive stars and SN/GRB progenitors, chair: O. Hartoog

09:40 – 10:10 C. Fryer (I): *Progenitors of SNe and GRBs*

10:10 – 10:30 L. Lopez: *What would the remnant of a GRB look like?*

10:30 – 10:50 C. Swenson: *UV/optical and X-ray flares in GRB lightcurves*

10:50 – 11:10 M. Friis: *Thermal emission in the early X-ray afterglows of GRBs*

— Coffee break: 11:10 – 11:40 —

11:40 – 12:00 I. Negueruela: *How should the progenitors of IIp-SNe look like?*

12:00 – 12:20 G. Montes: *Understanding the X-ray emission of close massive binaries: The case WR 20A*

12:20 – 12:40 M. Rubio Díez: *VFTS 682: an isolated twin of R136's WN5h core stars*

— Lunch & Beach 12:40 – 16:00 —

Chair: A. Cucchiara

16:00 – 16:20 J. Groh: *The surprising look of SN and GRB progenitors from stellar evolution models*

16:20 – 16:40 A. Volnova: *The optical light curve of the GRB 130427A and SN evidence*

16:40 – 16:50 P. Minaev: *To the dichotomy of short gamma-ray bursts*

16:50 – 17:00 A. Pozanenko: *Testing a two-jet model of short GRBs*

— Coffee break: 17:00 – 17:30 —

Session: Observations and instruments

17:30 – 18:00 M. Roth (I): *3D spectroscopy of massive stars, SNe, and other point sources in crowded fields*

18:00 – 18:20 D. Götz: *Catching the first stars with SVOM*

18:20 – 18:40 A. Cabrera-Lavers: *GRBs at GTC*

18:40 – 19:00 J. Gorosabel: *GTC observations of GRB afterglows and their host galaxies*

20:00 Welcome Cocktail at the Pool Bar

Tuesday, Sept. 24

Session: From the stars to their environment, Chair: L. Lopez

09:20 – 09:50 P. Crowther (I): *Massive stars, SNe and their star-forming regions*

09:50 – 10:10 J. Graham: *The metal aversion of long GRBs*

10:10 – 10:40 M. Mollá (I): *Chemical evolution models for spiral and irregular galaxies*

10:40 – 11:00 D. Szecsi: *Evolution of massive stars in blue compact dwarf galaxies: model tracks, WR stars and final fates*

— Coffee break: 11:00 – 11:30 —

11:30 – 11:50 M. Garcia: *Massive stars in metal-poor environments: One step forward from the SMC*

11:50 – 12:20 M. Modjaz (I): *SN environments*

12:20 – 12:30 J. Selsing: *IFS of Ic-BL SNe*

— Lunch & Beach 12:30 – 16:00 —

Chair: P. Kelly

16:00 – 16:30 C. Gall (I): *Formation and evolution of dust in galaxies*

16:30 – 16:50 D. Watson: *Origin of soft X-ray absorption in GRB afterglows*

Session: Spatially resolved observations of star-forming places

16:50 – 17:10 E. Perez-Montero (I): *WR galaxies and the interplay between gas and stars in star-forming systems*

17:10 – 17:30 C. Kehrig: *IFU spectroscopy of metal-poor WR HII galaxies*

— Coffee break: 17:30 – 18:00 —

18:00 – 18:30 S. Sanchez: *The CALIFA survey: Exploring the evolution of galaxies with HII regions*

18:30 – 18:50 R. Garcia-Benito: *The radial structure of M/L in CALIFA*

19:30 Public outreach event at Cala Grande

Wednesday, Sept. 25

Morning off four tours and activities

Chair: R. Garcia Benito

16:30 – 17:00 P. Papaderos (I): *Extremely metal poor galaxies*

17:00 – 17:20 D. Miralles: *Ionizing stellar population in NGC 3310*

17:20 – 17:40 M. Pakull: *He+ ionizing radiation in low metallicity starbursts*

— Coffee break: 17:40 – 18:10 —

Session: The hosts of stellar explosions

18:10-18:40 G. Leloudas (I): *SLSNe and their hosts*

18:40-19:00 R. Lunnan: *The extreme environments of SLSNe - connections to long GRBs?*

20:00 Informal evening discussion at the pool

Thursday, Sept. 26

Chair: M. Friis

9:30 – 10:00 D. Malesani (I): *Probing star-forming galaxies at all redshifts via long-duration GRB hosts*

10:00 – 10:20 B. Milvang-Jensen: *Ly α emission from GRB hosts based on the TOUGH survey*

10:20 – 10:50 A. Cucchiara: *Gemini Spectroscopy of the short burst GRB 130603B afterglow and host*

— Coffee break: 10:50 – 11:20 —

11:20 – 11:40 J. Elliott: *The solar-metallicity host of GRB 110918A*

11:40 – 12:00 S. Schulze: *120422A and its connection to high and low-luminosity GRBs*

12:00 – 12:20 P. Kelly: *Comparison between the hosts of CC-SNe and low- z GRB hosts*

—Lunch & Beach 12:20 – 16:00 —

Session: Star-forming galaxies near and far, chair: B. Milvang-Jensen

16:00 – 16:30 M. Michalowski (I): *Sub-mm and radio observations of SF galaxies*

16:30 – 17:00 M. Lehnert (I): *SF in distant galaxies: setting the stage for the parent population of GRB hosts*

17:00 – 17:20 R. Amorin: *Extreme emission line galaxies in the local universe and beyond: potential hosts of GRBs*

— (short) coffee break: 17:20 – 17:40 —

17:40 – 18:10 L. Christensen (I): *Properties of strong gravitationally lensed galaxies*

18:10 – 18:30 I. Kochiashvili: *Interlopers for the $z \sim 7$ galaxies and their nature*

**20:00 Bus to the conference dinner
at “La Gallineta” in El Pozo de los Frailes**

Friday, Sept. 27

Session: Using massive stars and their environment as tracers, chair: R. Amorin

10:00 – 10:30 D. Perley (I): *Promises and Perils for Constraining the Cosmic Star-Formation History with GRBs*

10:30 – 10:50 S. Vergani: *Are LGRBs biased tracers of SFR? Clues from a complete sample of $z < 1$ LGRB hosts*

10:50 – 11:10 O. Hartoog: *A double DLA towards a GRB at $z=5$*

— Coffee break: 11:10 – 11:40 —

11:40 – 12:15 *Summary talk:* S. Sanchez

12:15 – 12:45 Final discussion and goodbye