**Sesto 2018: Clues on GRB origin from chemical evolution models – SCIENTIFIC PROGRAM**

Each contribution consists of a 30 minute talk plus 15 minutes for discussion

29 January- **Session 1- Gamma Ray Bursts**

8:30 AM - 9:15 AM - Registration

9:15 AM - 10:00 AM- **- F. Frontera-** Historical overview on GRBs and prospects

10:00 AM - 10:45 AM - **E. Bissaldi** --The Fermi view of Gamma-Ray Bursts at the dawn of the

 Multi-Messenger era

10:45 AM - 11:30 AM – **M. Yassine** – Gamma Ray Bursts with Fermi/LAT

11:30 AM- 4:00 PM Lunch and Ski break

4:00 PM- 4:30 PM Coffee break

4:30 PM- 5:15 PM - **L. Nava** -- Radiative Processes in Gamma-Ray Bursts

5:15 PM- 6:00 PM - **L. Amati** -- The Transient High-Energy Sky and Early Universe Surveyor (THESEUS)

6:00 PM - 6:45 PM – **G. Tagliaferri** -- Swift and the Multiwavelength View of GRB Afterglows: a Panchromatic

 View of GRBs

7:00 PM - 9:00 PM Dinner break

30 January - **Continuation Session 1 and Session 2- GRBs and their progenitors**

9:15 AM- 10:00 AM - **J. Palmerio** -- Long GRB production efficiency: clues from the hosts of the BAT6 complete

 sample

10:00 AM- 10:45AM - **E.Pian** -- Kilonovae: the foundries of heavy elements

10:45 AM- 11:30 AM – **P. Astone**- Observation of gravitational waves from a binary neutron star merger with LIGO and Virgo detectors

11:30 AM- 4:00 PM Lunch and Ski break

4:00 PM- 4:30 PM Coffee break

**Session 2 - GRBs and their progenitors and Session 3 - GRBs and their hosts**

4:30 PM- 5:15 PM – **J. Japeli** – Host environments of GRBs, SLSNe and SneIc-BL: implications for progenitors

5:15 PM -6:00 PM – **C.Feruglio –** On the properties of a GRB host galaxy at the peak epoch of cosmic star

formation.

6:00 PM-6:45 PM – **F.Fiore** -- The science of HERMES: a constellation of nano-satellites for high energy

 astrophysics and fundamental physics

7:00 PM-9:00 PM Dinner break

31 January - **Continuation Session 3**

9:15AM -10 :00 AM – **D. Perley** -- The Swift GRB Host Galaxy Legacy Surveyor

10:00 AM- 10:45 AM - **J. Japeli**-- Joining the warm and ionized gas properties of GRB host galaxies up to

 very high redshifts

10:45 AM- 11:30 AM- **M. Della Valle** -- The Empirical Grounds of the SN-GRB connection and their Frequency of

 Occurrence

11:30 AM- 4:00 PM Lunch and Ski break

4:00 PM- 4:30 PM Coffee break

**Continuation of Session 3 and Session 4 - GRBs and chemical evolution**

4:30 PM- 5:15 PM - **C. Thoene -**- Resolved kinematics in GRB hosts: clues to enhanced star formation?

5:15 PM- 6:00 PM - **A. De Ugarte Postigo** -- Spectroscopy of GRBs and GRBSpec

6:00 PM- 6:45 PM – **L. Izzo** -- Metallicity and abundances from IFU observations of GRB and SLSN host galaxies

7:00PM -8:30PM Dinner break

8:30 PM- 11:30 PM – *Fiaccolata walk (free) (a nice 20 minute walk with torches to a “rifugio” where we will have wine and fun)*

1 February - **Continuation Session 4**

9:15 AM- 10:00 AM - **J. Graham**-- The LGRB Event Rate and Host Metallicity Distribution

10:00 AM- 10:45 AM - **P. Schady** -- The metallicities of long GRB host galaxies as seen in absorption and emission

10:45 AM – 11:30 AM- **L. Piro** -- Probing GRB progenitors with X-ray spectroscopy: from mergers to popIII GRBs

11:30 AM- 4:00 PM Lunch and Ski break

4:00 PM- 4:30 PM Coffee break

4.30 PM- 5:15 PM -- **A. De Cia** -- Understanding abundances in GRB host galaxies (TBC)

5:15 PM - 6:00 PM – **D. Miceli** -- GRB observations with MAGIC

6:00 PM – 6:45 PM– **F. Longo** -- Gamma Ray Bursts with eASTROGAM

8:00- 11:00 *Social dinner at the Bad-Moos Hotel*

*(for people not having half-board at the hotel there is an extra cost)*

2 February -

09:15 AM – 10:00 AM -- **E. Spitoni**-- Mass-metallicity relations in galaxies

10:00 AM- 10:45 AM – **F. Matteucci –** Identification of GRB hosts by means of chemical abundances

10:45 AM -11:30 AM – **Final discussion and concluding remarks**

**End of the Conference**