

Scientific Event Report

E **Research in Astrophysics from Space**

E1.18 **Gamma-ray Bursts: Observations and Theory of the Prompt and Afterglow Emission Processes and their Progenitors**

Main Scientific Organizer *Sonbas, Eda*
Deputy Organizer *Castro-Tirado, Alberto J.*

Photospheric Emission

Chair: Castro-Tirado, Alberto J.

Date: Sun, Jul 31, 2016. Room: 3B16

E1.18-0001-16 09:30 - 10:00 (solicited)

"Photospheric Emission in Gamma-Ray Bursts"

Pe'er, Asaf

E1.18-0002-16 10:00 - 10:15

Gamma-Ray Bursts with Thermal Signature Observed with FERMI/GBM

Unsal, Aslihan Muazzez; Kaneko, Yuki; Guiriec, Sylvain; Gogus, Ersin

E1.18-0003-16 (WITHDRAWN) 10:15 - 10:30

The statistics of BAT-to-XRT flux ratio in GRB: Evidence for a characteristic value and its implications

Kazanas, Demosthenes; Racusin, Judith; Sultana, Joseph; Mastichiadis, Apostolos

E1.18-0004-16 (WITHDRAWN) 10:30 - 10:45

The nature of the thermal emission in GRBs: clues for the radiation process and jet structure

Basak, Rupal; Rao, A.R.

E1.18-0005-16 (WITHDRAWN) 10:45 - 11:00

Towards an understanding of GRB prompt emission mechanism: The origin of spectral lags

Uhm, Z. Lucas

Prompt Emission

Chair: Kaneko, Yuki

Date: Sun, Jul 31, 2016. Room: 3B16

E1.18-0006-16 11:30 - 12:00 (solicited)

Toward a Unified Model for the Broadband Prompt Emission of Gamma Ray Bursts & a New Luminosity-Hardness Relation for Cosmology

Guiriec, Sylvain

E1.18-0007-16 12:00 - 12:15

Constraining emission mechanisms in gamma-ray bursts using spectral width

Axelsson, Magnus

E1.18-0008-16 12:15 - 12:30

The anatomy of a long gamma-ray burst: a simple classification scheme for the emission mechanism(s).

Bégué, Damien; Burgess, Michael

E1.18-0009-16 (WITHDRAWN) 12:30 - 12:45

The E_p - "intensity" correlation in GRBs: observational status, implications, perspectives

Amati, Lorenzo

E1.18-0010-16 12:45 - 13:00

BOOTES and GTC observations of cosmic gamma-ray bursts and their progenitors

Castro-Tirado, Alberto J. Team: ARAE

Central Engines
Chair: Dhuga, Kalvir S.
Date: Sun, Jul 31, 2016. Room: 3B16

E1.18-0011-16 14:00 - 14:30 (solicited)
Synchrotron Origin of the Typical GRB Band Function
Zhang, Binbin

E1.18-0012-16 14:30 - 14:45
The unusual behaviour of GRB 141221A
Bardho, Onelda; Gendre, Bruce; Rossi, Andrea; Boer, Michel; Amati, Lorenzo; Haislip, Joshua; Klotz, Alain; Palazzi, Eliana; Reichart, Dan

E1.18-0013-16 14:45 - 15:00
An External Shock Origin of GRB 141028A
Burgess, Michael; Bégué, Damien

E1.18-0014-16 15:00 - 15:15
Gamma-Ray Bursts in the One of the Last Frontiers: the 10–100 GeV Energy Band
Tam, P. H. Thomas

E1.18-0015-16 (WITHDRAWN) 15:15 - 15:30
Constraining newly born magnetars in GRBs and SLSNe by means of our Galactic pulsar population
Rea, Nanda

Afterglows & Hosts
Date: Sun, Jul 31, 2016. Room: 3B16

E1.18-0016-16 17:00 - 17:30 (solicited)
Multi-wavelength observation of long GRBs and host galaxies
De Pasquale, Massimiliano

E1.18-0017-16 17:30 - 17:45
Exploring the behaviour of long gamma-ray bursts with intrinsic afterglow correlations
Oates, Samantha

E1.18-0018-16 17:45 - 18:15 (solicited)
Multiwavelength observation of short GRBs and host galaxies
Nicuesa Guelbenzu, Ana Maria; Klose, Sylvio

E1.18-0019-16 (WITHDRAWN) 18:15 - 18:30
Search for properties of high redshift Gamma-Ray Bursts
Pizzichini, Graziella

Jets
Chair: Sonbas, Eda
Date: Mon, Aug 01, 2016. Room: 3B16

E1.18-0020-16 (WITHDRAWN) 09:30 - 10:00 (solicited)
The physics of GRB jets
Van Eerten, Hendrik

E1.18-0021-16 10:00 - 10:15
Initial Evolution of GRB Jets with Different Species
Nishikawa, Ken-ichi; Peer, Asaf; Dutan, Ioana; Frederiksen, Jacob; Nordlund, Aake; Mizuno, Yosuke; Hardee, Phil; Niemiec, Jacek; Gomez, Jose L.; Meli, Athina; Sol, Helene; Pohl, Martin; Hartmann, Dieter

E1.18-0022-16 (WITHDRAWN) 10:15 - 10:30

Multi-messenger observations of GRBs in the magnetar scenario

Coyne, Robert

E1.18-0023-16 (WITHDRAWN) 10:30 - 10:45

Fermi-GBM follow-up of the first gravitational-wave detection

Blackburn, Lindy

E1.18-0024-16 10:45 - 11:00

Determination of Cosmological Parameters from GRB Correlation between E_{iso} (gamma) and Afterglow Flux

Hannachi, Zitouni; Azzam, Walid; Guessoum, Nidhal

Multimessenger

Date: Mon, Aug 01, 2016. Room: 3B16

E1.18-0025-16 11:30 - 12:00 (solicited)

Multi-Timescale Radio Observations of Multi-Wavelength GRBs

Van Der Horst, Alexander

E1.18-0026-16 (WITHDRAWN) 12:00 - 12:15

Observation of early photons of Gamma-ray bursts from UFFO/Lomonosov

Jeong, Soomin; Park, I. H.

E1.18-0027-16 12:15 - 12:30

The Gamma-Ray Burst On-board Trigger ECLAIRs of SVOM

Schanne, Stephane

E1.18-0028-16 (WITHDRAWN) 12:30 - 12:45

Last results from the TAROT/Zadko network

Gendre, Bruce; Turpin, Damien; Atteia, Jean-Luc; Boer, Michel; Coward, David; Klotz, Alain

E1.18-0029-16 (WITHDRAWN) 12:45 - 13:00

New observational approach for distant GRBs in sub-MeV gammas by Electron Tracking Compton Camera with an well-defined PSF

Tanimori, Toru; Takada, Atsushi; Kishimoto, Tetsuro; Komura, Shotaro; Kubo, Hidetoshi; Kurosawa, Shun-suke; Matsuoka, Yoshihiro; Miuchi, Kentaro; Miyamoto, Shohei; Mizumoto, Tetsuya; Mizumura, Yoshitaka; Nakamasu, Yuma; Nakamura, Kiseki; Oda, Makoto; Parker, Joseph; Sawano, Tatsuya; Sonoda, Shinya; Takemura, Taito; Tomono, Dai; Yoshikawa, Kei

Poster Program

Author in Attendance: Sunday, 15:30 - 17:00, Poster area: B1 Poster Area

STW = Sunday, Tuesday, Wednesday / TFS = Thursday, Friday, Saturday

STW-260 E1.18-0030-16

Background Estimation of Gamma Ray Monitor onboard SVOM

Wu, Bobing; Dong, Yongwei; Xie, Fei

STW-261 E1.18-0031-16

The Hurst Exponent of Gamma-Ray Bursts

Sonbas, Eda; Dhuga, Kalvir S.; MacLachlan, Glen A.; Landay, Justin

STW-263 E1.18-0033-16

Intermediate GRBs as observed by Fermi/GBM and CRGO/BATSE

Arkhangelskaja, Irene

STW-265 E1.18-0035-16

Variability in GRB light curves: Introducing Orthogonal Matching Pursuit

Dereli, Husne; Bégué, Damien; Ryde, Felix

STW-266 E1.18-0036-16

Diverse Manifestations of the Jet Photosphere in GRB Spectra

Acuner, Zeynep; Iyyani, Shabnam; Ryde, Felix

Poster Program

Author in Attendance: Tuesday, 15:30 - 17:00, Poster area: B1 Poster Area

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Poster Program

Author in Attendance: Wednesday, 15:30 - 17:00, Poster area: B1 Poster Area

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