

**GRBV - V Congresso
Nazionale GRB 2022**

Report of Contributions

Contribution ID: 1

Type: **not specified**

The Amati relation after 20years: discovery, main properties, most relevant applications and perspectives

Monday, 12 September 2022 14:50 (30 minutes)

Presenter: AMATI, Lorenzo (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Monday Afternoon - I

Contribution ID: 2

Type: **not specified**

Workshop Introduction

Session Classification: Monday Afternoon - I

Contribution ID: 3

Type: **not specified**

Workshop Introduction

Monday, 12 September 2022 14:30 (20 minutes)

Presenter: FIORE, Fabrizio (Istituto Nazionale di Astrofisica (INAF))

Contribution ID: 4

Type: **not specified**

Physics of the GRB prompt emission

Monday, 12 September 2022 15:20 (30 minutes)

Presenter: OGANESYAN, Gor (Gran Sasso Science Institute)

Session Classification: Monday Afternoon - I

Contribution ID: 5

Type: **not specified**

New insights into the physics of GRB prompt emission from high energy observations

Monday, 12 September 2022 15:50 (20 minutes)

Presenter: RAVASIO, Maria Edvige (Radboud University)

Session Classification: Monday Afternoon - I

Contribution ID: 6

Type: **not specified**

Open Discussion

Monday, 12 September 2022 16:10 (20 minutes)

Session Classification: Monday Afternoon - I

Contribution ID: 7

Type: **not specified**

Is rapid optical rise of GRB 190919B a sign of late flaring activity

Monday, 12 September 2022 17:00 (20 minutes)

Presenter: TOPINKA, Martin (IASF - INAF)

Session Classification: Monday Afternoon - II

Contribution ID: 8

Type: **not specified**

GRB 080928 afterglow polarization analysis and GRB afterglow spectropolarimetry

Monday, 12 September 2022 17:20 (20 minutes)

Presenter: BRIVIO, Riccardo (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Monday Afternoon - II

Contribution ID: 9

Type: **not specified**

GRB 201015A: a relatively faint GRB with a hint of Very High Energy gamma-ray emission

Monday, 12 September 2022 17:40 (20 minutes)

Presenter: GIARRATANA, Stefano (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Monday Afternoon - II

Contribution ID: **10**

Type: **not specified**

GRB 201015A: a relatively faint GRB with a hint of Very High Energy gamma-ray emission

Presenter: GIARRATANA, Stefano (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Monday Afternoon - II

Contribution ID: 11

Type: **not specified**

Radio data challenge the broadband modelling of GRB160131A afterglow

Monday, 12 September 2022 18:00 (20 minutes)

Presenter: MARONGIU, Marco (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Monday Afternoon - II

Contribution ID: 12

Type: **not specified**

Open Discussion

Monday, 12 September 2022 18:20 (10 minutes)

Session Classification: Monday Afternoon - II

Contribution ID: 13

Type: **not specified**

High Energy emission from GRBs, from Fermi to IACTs

Tuesday, 13 September 2022 09:00 (30 minutes)

Presenter: LONGO, Francesco

Session Classification: Tuesday Morning - I

Contribution ID: 14

Type: **not specified**

Gamma-Ray Bursts at the highest energies

Tuesday, 13 September 2022 09:30 (30 minutes)

Presenter: NAVA, Lara (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Tuesday Morning - I

Contribution ID: 15

Type: **not specified**

Very high energy emission from gamma-ray bursts with the MAGIC telescopes

Tuesday, 13 September 2022 10:00 (20 minutes)

Presenter: MICELI, Davide (Università e INFN Padova)

Session Classification: Tuesday Morning - I

Contribution ID: 16

Type: **not specified**

GeV emission from a compact binary merger

Tuesday, 13 September 2022 10:20 (20 minutes)

Presenter: MEI, Alessio (GSSI)

Session Classification: Tuesday Morning - I

Contribution ID: 17

Type: **not specified**

Open Discussion

Tuesday, 13 September 2022 10:40 (10 minutes)

Session Classification: Tuesday Morning - I

Contribution ID: 18

Type: **not specified**

Short Gamma-ray bursts in the multi-messenger era: situation and perspectives

Tuesday, 13 September 2022 11:20 (30 minutes)

Presenter: D'AVANZO, Paolo (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Tuesday Morning - II

Contribution ID: 19

Type: **not specified**

From binary neutron star mergers to short gamma-ray burst jets: towards the first end-to-end numerical modelling

Tuesday, 13 September 2022 11:50 (30 minutes)

Presenter: CIOLFI, Riccardo (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Tuesday Morning - II

Contribution ID: 20

Type: **not specified**

A simultaneous model fitting of GW and EM data of mergers: breaking model degeneracies in GW170817 and future events

Tuesday, 13 September 2022 12:20 (20 minutes)

Presenter: GIANFAGNA, Giulia (IAPS - INAF)

Session Classification: Tuesday Morning - II

Contribution ID: 21

Type: **not specified**

Search for afterglow and kilonova emission in short GRBs

Tuesday, 13 September 2022 12:40 (20 minutes)

Presenter: FERRO, Matteo (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Tuesday Morning - II

Contribution ID: 22

Type: **not specified**

The first orphan GRB detected through its associated SN emission

Tuesday, 13 September 2022 15:00 (20 minutes)

Presenter: IZZO, Luca (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Tuesday Afternoon

Contribution ID: 23

Type: **not specified**

Optimising the observation strategy of optical counterparts to short GRBs with robotic Liverpool Telescope

Tuesday, 13 September 2022 15:20 (20 minutes)

Presenter: CAMISASCA, Anna Elisa (Università di Ferrara)

Session Classification: Tuesday Afternoon

Contribution ID: 24

Type: **not specified**

Perspectives for multi-messenger astronomy with the next generation of gravitational-wave detectors and high-energy satellites

Tuesday, 13 September 2022 15:40 (30 minutes)

Presenter: RONCHINI, Samuele

Session Classification: Tuesday Afternoon

Contribution ID: 25

Type: **not specified**

Open Discussion

Tuesday, 13 September 2022 16:10 (20 minutes)

Session Classification: Tuesday Afternoon

Contribution ID: 26

Type: **not specified**

Story of a discovery 25 years later: the GRB afterglow with BeppoSAX

Tuesday, 13 September 2022 17:00 (1h 30m)

Presenters: COSTA, Enrico (Istituto Nazionale di Astrofisica (INAF)); FRONTERA, Filippo; PIRO, Luigi (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Tuesday Afternoon - II

Contribution ID: 27

Type: **not specified**

The structure of Gamma Ray Burst jets

Wednesday, 14 September 2022 09:20 (30 minutes)

Presenter: GHIRLANDA, Giancarlo (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Wednesday Morning - I

Contribution ID: 28

Type: **not specified**

The origin of the X-ray plateaus in the structured jet scenario

Wednesday, 14 September 2022 09:50 (30 minutes)

Presenter: ASCENZI, Stefano (Institute of Space Sciences (ICE) - CSIC-IEEC)

Session Classification: Wednesday Morning - I

Contribution ID: 29

Type: **not specified**

GRBs and magnetars in the multi-messenger era

Wednesday, 14 September 2022 10:20 (30 minutes)

Presenter: BERNARDINI, Maria Grazia (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Wednesday Morning - I

Contribution ID: **30**

Type: **not specified**

The Hunt for the GRB Central Engine

Wednesday, 14 September 2022 11:20 (30 minutes)

Presenter: DALL'OSSO, Simone

Session Classification: Wednesday Morning - II

Contribution ID: **31**

Type: **not specified**

Open Discussion

Wednesday, 14 September 2022 11:50 (20 minutes)

Session Classification: Wednesday Morning - II

Contribution ID: 32

Type: **not specified**

White dwarf binary mergers: an overlooked class of low-energy gamma- ray bursts

Wednesday, 14 September 2022 12:10 (30 minutes)

Presenter: RUEDA HERNANDEZ, Jorge Armando (ICRANet-Ferrara)

Session Classification: Wednesday Morning - II

Contribution ID: 33

Type: **not specified**

Mixing up the standard GRB classification

Wednesday, 14 September 2022 12:40 (20 minutes)

Presenter: ROSSI, Andrea (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Wednesday Morning - II

Contribution ID: 34

Type: **not specified**

A data driven framework for searching long faint astronomical high- energy transients

Wednesday, 14 September 2022 15:00 (20 minutes)

Presenter: CRUPI, Riccardo (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Wednesday Afternoon - I

Contribution ID: 35

Type: **not specified**

The hunt for GRB host galaxies

Wednesday, 14 September 2022 15:20 (30 minutes)

Presenter: ROSSI, Andrea (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Wednesday Afternoon - I

Contribution ID: 36

Type: **not specified**

On the hosts of neutron star mergers in the nearby Universe

Wednesday, 14 September 2022 15:50 (20 minutes)

Presenter: CAVALLO, Lorenzo (Università degli Studi di Padova)

Session Classification: Wednesday Afternoon - I

Contribution ID: 37

Type: **not specified**

Dissecting the ISM of a $z=6.3$ galaxy. X-shooter spectroscopy and HST imaging of the afterglow and environment of the Swift GRB 210905A

Wednesday, 14 September 2022 16:10 (20 minutes)

Presenter: SACCARDI, Andrea (GEPI, Observatoire de Paris, Université PSL, CNRS)

Session Classification: Wednesday Afternoon - I

Contribution ID: **38**

Type: **not specified**

Open Discussion

Wednesday, 14 September 2022 17:00 (20 minutes)

Session Classification: Wednesday Afternoon - II

Contribution ID: 39

Type: **not specified**

On the hadronic origin of the TeV radiation from GRBs and the expected neutrino flux

Wednesday, 14 September 2022 17:20 (30 minutes)

Presenter: GUETTA, Dafne (Ariel University, Ariel, Israel)

Session Classification: Wednesday Afternoon - II

Contribution ID: 40

Type: **not specified**

GRBs at high redshift

Wednesday, 14 September 2022 17:50 (20 minutes)

Presenter: PIZZICHINI, Graziella (OAS-INAF)

Session Classification: Wednesday Afternoon - II

Contribution ID: 41

Type: **not specified**

Time Evolving Photoionisation Device (TEPID): a new code for time evolving photoionisation and spectral fitting

Thursday, 15 September 2022 09:00 (20 minutes)

Presenter: LUMINARI, Alfredo (University of Rome "Tor Vergata")

Session Classification: Thursday Morning - I

Contribution ID: 42

Type: **not specified**

Time-evolving modelling for fits to Xray GRB afterglows

Thursday, 15 September 2022 09:20 (20 minutes)

Presenter: THAKUR, Aishwarya Linesh

Session Classification: Thursday Morning - I

Contribution ID: 43

Type: **not specified**

The SVOM mission

Thursday, 15 September 2022 09:40 (30 minutes)

Presenter: BERNARDINI, Maria Grazia (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Thursday Morning - I

Contribution ID: 44

Type: **not specified**

The Transient High-Energy Sky and Early Universe Surveyor (THESEUS)

Thursday, 15 September 2022 10:10 (30 minutes)

Presenter: STRATTA, Maria Giuliana (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Thursday Morning - I

Contribution ID: 45

Type: **not specified**

Open Discussion

Thursday, 15 September 2022 10:40 (10 minutes)

Session Classification: Thursday Morning - I

Contribution ID: 46

Type: **not specified**

The X/Gamma-ray Imaging Spectrometer XGIS: Unveiling a high- energy broadband

Thursday, 15 September 2022 11:20 (20 minutes)

Presenter: MARCHESINI, Ezequiel (OAS Bologna - INAF)

Session Classification: Thursday Morning - II

Contribution ID: 47

Type: **not specified**

Algorithms for Gamma-Ray Bursts detection

Thursday, 15 September 2022 11:40 (20 minutes)

Presenter: DI LILLO , Giuseppe (IAPS - INAF)

Session Classification: Thursday Morning - II

Contribution ID: 48

Type: **not specified**

Study of Gamma-Ray Bursts microvariability

Thursday, 15 September 2022 12:00 (20 minutes)

Presenter: DELLA CASA, Giovanni (Università di Udine)

Session Classification: Thursday Morning - II

Contribution ID: 49

Type: **not specified**

HERMES and SpIRIT status report

Thursday, 15 September 2022 12:20 (20 minutes)

Presenter: FIORE, Fabrizio (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Thursday Morning - II

Contribution ID: 50

Type: **not specified**

Open Discussion

Thursday, 15 September 2022 12:40 (20 minutes)

Session Classification: Thursday Morning - II

Contribution ID: 51

Type: **not specified**

HERMES and SPIRIT payload calibration

Thursday, 15 September 2022 15:00 (20 minutes)

Presenter: CAMPANA, Riccardo (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Thursday Afternoon

Contribution ID: 52

Type: **not specified**

On the localisation capabilities of the HERMES + SpIRIT constellation of cube-sats

Thursday, 15 September 2022 15:20 (20 minutes)

Presenter: SANNA, Andrea (Università di Cagliari)

Session Classification: Thursday Afternoon

Contribution ID: 53

Type: **not specified**

HERMES detection rate and synergies with GW interferometers

Thursday, 15 September 2022 15:40 (20 minutes)

Presenters: GHIRLANDA, Giancarlo (Istituto Nazionale di Astrofisica (INAF)); NAVA, Lara (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Thursday Afternoon

Contribution ID: 54

Type: **not specified**

ALBATROS

Thursday, 15 September 2022 16:00 (20 minutes)

Presenter: BURDERI, Luciano (University of Cagliari)

Session Classification: Thursday Afternoon

Contribution ID: 55

Type: **not specified**

Concluding Remarks

Thursday, 15 September 2022 16:20 (20 minutes)

Session Classification: Thursday Afternoon