

Gamma-ray Bursts 2010
Annapolis, MD, USA November 1-4, 2010
Final Program

Presenter/Institution	Title	
Monday, Nov 1		
Breakfast 8:00 - 9:00 am		
Session 1: Prompt Observations I 9:00 - 10:35 am	Julie McEnery/ Neil Gehrels NASA/GSFC	Welcome
	Takanori Sakamoto (I) GSFC/UMBC	Prompt Emission Properties of Swift GRBs
	Michael Briggs (I) University of Alabama Huntsville	GBM Observations of Gamma-ray Bursts
	Veronique Pelassa (I) LPTA, CNRS/IN2P3 - Universite Montpellier 2	LAT Observations of Gamma-ray Bursts
Coffee Break 10:35 - 11:00 am		
Session 2: Prompt Observations II 11:00 am - 12:30 pm	Frederic Piron CNRS/IN2P3/LPTA	Fermi LAT Observations of Long-Lasting High-Energy Emission from GRB 090323 and GRB 090328
	Vlasios Vasileiou NASA GSFC/UMBC	Towards the First Fermi-LAT GRB Catalog
	Binbin Zhang University of Nevada Las Vegas	The Three Spectral Components of Fermi/LAT GRBs
	Elisabetta Bissaldi Institute of Astro- and Particle Physics University Innsbruck	The 50 Brightest and Hardest GRBs Detected with the Gamma-ray Burst Monitor (GBM) on Fermi
	Antonio Martin-Carrillo UCD School of Physics	Spectral and Temporal Properties of Long GRBs Detected by INTEGRAL from 3 keV to 8 MeV
	Sylvain Guiriec NASA Marshall Space Flight Center / UAH	Detection of a Thermal Spectral component in the Prompt Emission of GRBs
Lunch 12:30 - 2:00 pm		

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Session 3: Prompt Theory I 2:00 - 3:30 pm	Frederic Daigne (I) Institut d'Astrophysique de Paris - Universite Pierre et Marie Curie- Paris 6	Modelling the Prompt Emission from GRBs
	Bing Zhang University of Nevada Las Vegas	The Internal Collision-induced MAgnetic Reconnection and Turbulence (ICMART) model of GRBs
	Asaf Pe'er Harvard-Smithsonian Center for Astrophysics	The Connection Between Thermal and Non- Thermal Emission in Gamma-ray Bursts: General considerations and GRB090902B as a Case Study
	Kenji Toma Pennsylvania State University	A Photosphere-Internal Shock Model of GRBs: Implications for the Fermi/LAT Results
	Andrei Beloborodov Columbia University	Collisional Mechanism for the Prompt GRB Emission
Coffee Break 3:30 - 4:00 pm		
Session 4: Prompt Theory II 4:00 - 5:30 pm	Robert Nemiroff Michigan Technological University	A Simple Energy-Dependent Model for GRB Pulses with Interesting Physical Implications
	Kunihito Ioka KEK Theory Center	High Lorentz Factor Fireballs for High- Energy GRB Emission
	Mikhail Medvedev Kansas University	Are GRB Jets Magnetically-Dominated, or Baryon-Rich, or Lepton-Rich?
	Francesco Massaro Harvard-Smithsonian Astrophysical observatory Center for Astrophysics	Gamma Ray Bursts in the SWIFT and Fermi Era: a New View of the Prompt and Early Afterglow Emission
	Robert Mochkovitch Institut d'Astrophysique de Paris	Do X-ray Flares in Early GRB Afterglows Imply a Late Activity of the Central Engine?
	TBD	<i>Late Breaking Topic</i>

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Tuesday, Nov 2

Breakfast
8:00 - 9:00 am

Session 5:
Afterglows I
9:00 - 10:30 am

Dale Frail (I)
National Radio
Astronomy Observatory

Multiwavelength Observations of Gamma-ray Burst Afterglows

Samantha Oates
MSSL-UCL

A Statistical Comparison of the Optical/UV and X-ray GRB Afterglows Observed using the Swift UVOT and XRT

Eleonora Troja
NASA/GSFC/ORAU

Clues to the Origin of X-ray Flares with Swift and Fermi

Raffaella Margutti
INAF-OAB, Milan

Constraints to Hyperaccreting Black Holes from GRBs Observations

Phil Evans
University of Leicester

Spectral Evolution and the Onset of the X-ray Afterglow

Coffee Break
10:30 - 11:00 am

Session 6:
Afterglows II
11:00 am - 12:30 pm

Andy Macfadyen (I)
NYU

The Standard Afterglow Model and Issues

Marco Nardini
MPE Garching

On the Nature of Dark Bursts

Seamus Meehan
University College Dublin

Watcher Observations of Prompt and Afterglow Optical Emission from GRB 080905B

Alberto Castro-Tirado
IAA-CSIC

Millimetre Observations of GRB Afterglows

Stephen Cenko
UC Berkeley

Afterglow Observations of Fermi-LAT Gamma-Ray Bursts and the Emerging Class of Hyper-Energetic Events

Lunch
12:30 - 2:00 pm

Session 7:
High Redshift GRBs and
Cosmology
2:00 - 4:00 pm

Nial Tanvir (I)
University of Leicester

High Redshift Gamma-ray Bursts

Dieter Hartmann
Clemson University

What GRBs reveal about the cosmic baryon history

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	Yudai Suwa Kyoto Univ.	Gamma-Ray Bursts of First Stars
	Nathaniel Butler UC Berkeley	High Redshift Rate Constraints GRB Demographics with Swift
	David Wanderman The Hebrew University of Jerusalem	The Luminosity Function and the Rate of Swift's Gamma-ray Bursts
	Lorenzo Amati INAF - IASF Bologna	The $E_{p,i}$ - Eiso Correlation: Updates, Reliability and Cosmological Use
	Francisco Virgili University of Nevada, Las Vegas	GRBs and the Effects of Metallicity, Redshift Evolution and High-z Bursts
Coffee Break 4:00 - 4:30 pm		
Session 8: Supernovae and Long GRB Progenitors 4:30 - 5:45 pm	Alicia Soderberg (I) Harvard University	The GRB-Supernova connection
	Davide Lazzati (I) NCSU	Collapsars as the Progenitor of Gamma-ray Bursts
	Shigehiro NAGATAKI Kyoto University	Collapsar Simulations: From Engine to Relativistic Outflow, and ^{56}Ni Production
Wednesday, Nov 3		
Breakfast 8:00 - 9:00 am		
Session 9: Magnetars in our Galaxy 9:00 - 10:00 am	Matthew Baring (I) Rice University	Perspectives on Magnetar Burst Emission
	Alexander van der Horst USRA	Fermi/GBM Spectral and Temporal Analysis of SGR J1550-5418 Bursts During its Extreme Activation in January 2009
	Lin Lin University of Alabama in Huntsville	Fermi/GBM Observations of SGR 0501+4516
Magnetars in GRBs 10:00 - 10:30 am	Paul O'Brien University of Leicester	Observational Evidence for Magnetars Powering Gamma-Ray Bursts

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	Brian Metzger Princeton University	The Proto-Magnetar Model for Gamma-Ray Bursts
Coffee Break 10:30 - 11:00 am		
Session 10: Short GRB Observations 11:00 am - 12:30 pm	Andy Fruchter (I) STScI	Host Galaxies of Short Gamma-Ray Bursts
	Wen-fai Fong Harvard-Smithsonian Center for Astrophysics	Observations of Short GRB Host Galaxies: Morphologies, Offsets and Environments
	Edo Berger Harvard University	The Host Galaxies and Environments of Short GRBs: Implications for the Progenitors
	Massimiliano De Pasquale Mullard Space Science Laboratory - University College London	GRB 090510, The First Case Study of a Short GRB With GEV Extended Emission Detected By Fermi and Swift
	Alexei Pozanenko Space Research Institute	A model of the Extended Emission of Short Gamma-ray Bursts
Lunch 12:30 - 2:00 pm		
Session 11: Short GRB Theory 2:00 - 2:45 pm	Stephan Rosswog (I) Jacobs University Bremen	Compact Binary Mergers and Short GRBs: the Emerging Patchwork Picture
	Bruno Giacomazzo University of Maryland	General Relativistic Simulations of Binary Neutron Star Mergers
High-Energy Emission I 2:45 - 3:30 pm	Tsvi Piran (I) The Hebrew University of Jerusalem	Implications and Interpretation of High- Energy Emission from Gamma-ray Bursts
	Soebur Razzaque U.S. Naval Research Lab	Leptonic-Hadronic Modeling of Extended High-Energy Emission from Fermi LAT GRBs
Coffee Break 3:30 - 4:00 pm		
Session 12: High-Energy Emission II 4:00 - 5:30 pm	Rodolfo Barniol Duran University of Texas at Austin	High Energy Radiation from Fermi GRBs: Electrons Acceleration in the External Forward Shock

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	James Chiang KIPAC / SLAC	The Search for High Energy Extended Emission by Fermi-LAT from Swift-localized Gamma-ray Bursts
	Daniel Kocevski Stanford University	Constraining the High Energy Emission from GRBs with the Fermi Spacecraft
	Carl Akerlof University of Michigan	Looking for Needles in Haystacks - Searching for GRB γ -rays with the Fermi/LAT Detector
	Joel Primack UCSC	Modeling GRB Observations by Fermi and ACTs
	Ettore Del Monte INAF IASF Roma	The Observation of GRBs with AGILE and the Interesting Cases of GRB 090618 and GRB 100724B
Conference Banquet 7:00 - 10:00 pm	Buddy's Crabs & Ribs 100 Main Street Annapolis, MD	
Thurs, Nov 4		
Breakfast 8:00 - 9:00 am		
Session 13: Outflows and Jets 9:00 - 9:45 am	Mario Livio (I) STScI	Astrophysical Jets
	Omer Bromberg The hebrew university Jerusalem, Israel	The Jet-Star Interaction in Collapsars
Multi-Messenger 9:45 - 10:30 am	Ignacio Taboada (I) Georgia Institute of Technology	Multi Messenger Observations of Gamma-ray Bursts
	Charles Dermer NRL	Gamma Ray Bursts, Ultra-high Energy Cosmic Rays, and the Intergalactic Magnetic Field
Coffee Break 10:30 - 11:00 am		

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Session 14: Host Galaxies 11:00 am - 12:15 pm	Palli Jakobsson (I) Centre for Astrophysics and Cosmology, U. of Iceland	Host Galaxies of Long Gamma-Ray Bursts
	Emily Levesque University of Colorado at Boulder	Exploring the Host Environments of Long- Duration GRBs
	Adria Updike Clemson University	Investigating Dust Properties of GRB Host Galaxies
	Daniel Perley University of California, Berkeley	Near- and Mid-Infrared Observations of Dark GRB Hosts: Evidence for a Dusty, Massive, High-Metallicity Host Sub- Population
Poster Prize Talks 12:15-12:45	Poster Prize Winner	<i>Poster Prize Talk</i>
	Poster Prize Winner	<i>Poster Prize Talk</i>
	Poster Prize Winner	<i>Poster Prize Talk</i>
Lunch 12:45 - 2:15 pm		
Session 15: Future Missions & Discussion 2:15 - 4:15 pm	Discussions - Chaired by Dieter Hartmann	Future Studies to Address Open GRB Questions and GRBs as Probes
Coffee Break 4:15 - 4:45 pm		

(I) = invited talks