

2011 Fermi Symposium Program

Sunday

16:00 - 20:00 **Registration at Physics Department**

Monday

Plenary Session 1 - Fermi the Man and Fermi the Observatory

9:00 - 9:20	Welcome	
9:20 - 9:45	Fermi Mission Overview	<i>Elizabeth Hays* (NASA/GSFC)</i>
9:45 - 10:10	Fermi and Astrophysics	<i>Steve Shore* (University of Pisa)</i>
10:10 - 10:35	Enrico Fermi and High Energy Astrophysics in Italy	<i>Giovanni Bignami* (University of Pavia)</i>
10:35 - 11:00	Coffee Break	
11:00 - 11:30	Influence of Fermi and his Roman group on Nuclear and Medical Physics	<i>Ugo Amaldi* (University Milano Bicocca and Tera foundation)</i>
11:30 - 11:55	The Second Fermi LAT Catalog: Construction and Contents	<i>Toby Burnett* (University of Washington)</i>
11:55 - 12:15	The Second Fermi LAT Catalog: Caveats and Classifications	<i>Dave Thompson* (NASA/GSFC)</i>
12:15 - 12:30	TeV sources analysis with AGILE	<i>Francesco Longo (University of Trieste and INFN, Trieste)</i>
12:30 - 14:00	Lunch	

Plenary Session 2 - Cosmic-rays and Galactic Structure

14:00 - 14:30	Galactic diffuse emission: models and interpretation	<i>Jean-Marc Casandjian* (CEA Saclay)</i>
14:30 - 14:45	Fermi's View of the Inner Galaxy	<i>Troy Porter (Stanford University)</i>
14:45 - 15:00	Cosmic-Ray Positron Measurement with the Fermi-LAT Using the Earth's Magnetic Field	<i>Warrit Mitthumsiri (Stanford University)</i>
15:00 - 15:15	Fermi Bubbles: A 10 Kpc Shock From The Galactic Center?	<i>Meng Su (Harvard University)</i>

Plenary Session 3 - Observations of the Sun and Earth

15:15 - 15:30	Impulsive High-Energy Particle Acceleration in the SOL2010-06-12T00:57 M2 X-ray Flare	<i>Gerry Share (University of Maryland)</i>
15:30 - 16:00	Coffee Break	
16:00 - 16:30	Solar Flares and Gamma-ray Observations	<i>Jim Ryan* (University of New Hampshire)</i>
16:30 - 16:45	Long-lived solar gamma-ray emission during 2011 March 7th to 8th detected by the Fermi LAT	<i>Yasuyuki Tanaka (ISAS/JAXA)</i>
16:45 - 17:00	GBM Observations of Terrestrial Gamma-ray Flashes	<i>Suzanne Foley (MPE)</i>
17:00 - 17:15	AGILE observations of Terrestrial Gamma-ray Flashes	<i>Martino Marisaldi (INAF-IASF Bologna)</i>
18:00	Vatican Tour	

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Tuesday		Plenary Session 4 - AGN I	
9:00 - 9:45	Fermi and Blazars	<i>Elisabetta Cavazzuti* (ASDC) & Gabriele Ghisellini* (Brera)</i>	
9:45 - 10:00	Planck, Swift, and Fermi simultaneous observations of blazars	<i>Paolo Giommi (ASDC)</i>	
10:00 - 10:15	Observations and Modeling of Multi-waveband Variations of Blazars during Gamma-ray Outbursts	<i>Alan Marscher (Boston University)</i>	
10:15 - 10:30	Challenges to the standard models from gamma-ray spectra of blazars at the two ends of the blazar sequence	<i>Luigi Costamante (Stanford University)</i>	
10:30 - 11:00	Coffee Break		
11:00 - 11:30	Fermi and non-blazar AGN	<i>Teddy Cheung* (Naval Research Lab.)</i>	
Plenary Session 5 - Gamma-ray Bursts I			
11:30 - 12:00	Fermi and GRB	<i>Asaf Pe'er* (Harvard University)</i>	
12:00 - 12:15	The First GBM GRB Catalogs	<i>Rob Preece (UA Huntsville)</i>	
12:15 - 12:30	The Fermi-LAT GRB Catalog	<i>Nicola Omodei (Stanford University)</i>	
12:30 - 14:00	Lunch		
Parallel Session 6A - Analysis Methods		Parallel Session 6B - Pulsars I	
14:00 - 14:30	Validation and Calibration of the Fermi Large Area Telescope Instrument Performance	<i>Eric Charles (SLAC)</i>	Joint AGILE+Fermi Observations of the "soft" gamma-ray pulsar B1509-58
14:15 - 14:30			Radio Searches of Fermi LAT Unassociated Sources and Blind Search Pulsars
14:30 - 14:45	A new method to disentangle diffuse background sources	<i>Savvas Koushiappas (Brown)</i>	Timing and Characterization of Pulsar Glitches with Fermi LAT
14:45 - 15:00	Recovering LAT Gamma Ray Bursts' prompt emission above 30 MeV with the LAT Low-Energy Selection	<i>Veronique Pelassa (UA Huntsville)</i>	Gamma-Ray Pulsar Light Curves in Offset Polar Cap Geometry
15:00 - 15:15	Search for Spatially Extended Sources Using Two Years of Flight Data	<i>Joshua Lande (Stanford)</i>	Millisecond pulsars and Fermi unidentified sources
15:15 - 15:30	A needlet-based approach to the full sky gamma-ray data analysis	<i>R. Iuppa (Univ. of Rome, Tor Vergata)</i>	Modeling the new Gamma-ray Millisecond Pulsar Subclass Exhibiting Phase-Aligned Light Curves
15:30 - 16:00	Coffee Break		

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Parallel Session 7A - Gamma-ray Bursts II

Parallel Session 7B - Diffuse, Dark Matter, and New Physics

16:00 - 16:15	Fitting GBM Gamma-Ray Burst Spectra with Physical Emission Models	<i>Michael Burgess</i> <i>(UAHuntsville)</i>	Understanding the origin of high-energy cosmic rays	<i>Igor Moskalenko</i> <i>(Stanford)</i>
16:15 - 16:30	Bright High-Energy GRBs detected with the Gamma ray Burst Monitor on Fermi	<i>Elisabetta Bissaldi</i> <i>(Innsbruck)</i>	Results from the PAMELA experiment	<i>Elena Vannuccini</i> <i>(INFN - Firenze)</i>
16:30 - 16:45	Do Fermi-LAT observations really imply very large Lorentz factors in GRB outflows ?	<i>R. Hascoet</i> <i>(Paris)</i>	Combined Analysis on Clusters of Galaxies - Gamma Ray Emission from Cosmic Rays and Dark Matter	<i>Stephan Zimmer</i> <i>(Stockholm)</i>
16:45 - 17:00	Leptonic and hadronic models for the extra components in Fermi-LAT GRBs	<i>K. Asano</i> <i>(Tokyo Tech)</i>	The Galactic Center Region Imaged by VERITAS	<i>Mathias Beilicke</i> <i>(Wash U)</i>
17:00 - 17:15	The origin of GeV emission in Gamma-Ray Bursts	<i>Lara Nava</i> <i>(SISSA)</i>	Multi-wavelength studies of Synchrotron Radiation from Dark Matter Annihilation and Astrophysical Backgrounds at the Galactic Center	<i>Tim Linden</i> <i>(UCSC)</i>
17:15 - 17:30	Explaining the lack of LAT detected GRBs	<i>Dan Kocevski</i> <i>(Stanford)</i>	A search for spectral lines from WIMP annihilation in the Milky Way using the Fermi Large Area Telescope	<i>Elliott Bloom</i> <i>(SLAC)</i>
18:00 - 20:00	Cocktails @ Aula Magna La Sapienza			

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Wednesday

Plenary Session 8 - Magnetic Fields and the Diffuse Background

9:00 - 9:30	Fermi and Intergalactic Magnetic Fields	<i>Andrii Neronov* (Geneva Observatory)</i>
9:30 - 9:45	On the strength and space-filling factor of the intergalactic magnetic field	<i>Sergey Ostapachenko (NTNU)</i>
9:45 - 10:15	On the Extragalactic Gamma-ray Background, its origin and components and the Evolution and Growth of FSRQs	<i>Marco Ajello* (SLAC)</i>
10:15 - 10:30	An anisotropy analysis of the diffuse gamma-ray background measured by the Fermi-LAT	<i>Jennifer Siegal-Gaskins (The Ohio State University)</i>
10:30 - 11:00	Coffee Break	

Plenary Session 9 - Dark Matter

11:00 - 11:30	Dark matter theory and Fermi	<i>Pearl Sandick* (University of Texas, Austin)</i>
11:30 - 12:00	Dark matter observations and Fermi	<i>Luca Latronico* (INFN - Torino & INFN - Pisa)</i>
12:00 - 12:15	Dark Disks and Fermi: the Good, the Bad and the Ugly	<i>Gregory Dobler (Kavli Institute, UCSB)</i>
12:15 - 12:30	Constraining dark matter signal from a combined analysis of Milky Way satellites with the Fermi-LAT	<i>Maja Llena Garde (Stockholm University)</i>
12:30 - 14:00	Lunch	

Parallel Session 10A - AGN II

Parallel Session 10B - Supernova Remnants and Pulsar Wind Nebulae

14:00 - 14:15	Synchrotron/IC scaling relations in Blazar flares	<i>Stefan Wagner (Heidelberg)</i>	Core-collapse model of broadband emission from SNR J1713	<i>Don Ellison (NCSSU)</i>
14:15 - 14:30	Gamma-Ray Properties of Extragalactic Jets from the TANAMI and MOJAVE Samples	<i>Matthias Kadler (Würzburg)</i>	Probing proton acceleration in W51C with MAGIC	<i>Julian Krause (MPI)</i>
14:30 - 14:45	Broad Line Radio Galaxies Observed with Fermi LAT; Disentangling the Jet and the Disk Emission Spectra	<i>Jun Kataoka (Waseda University)</i>	VHE observation of CTA 1 with VERITAS	<i>Steven McArthur (Wash U)</i>
14:45 - 15:00	From blazar sequence to blazar envelope: strong and weak jets and a paradigm shift in the unification of radio-loud AGNs	<i>Giovanni Fossati (Rice University)</i>	Unveiling the origin of gamma-ray emission towards the W41 region with H.E.S.S. and Fermi-LAT	<i>Jeremie Mehault (Montpellier)</i>
15:00 - 15:15	The July 2010 outburst of the NLS1 PMN J0948+0022	<i>Luigi Foschini (Brera)</i>	Fermi LAT Studies of Composite SNRs	<i>Pat Slane (CfA)</i>
15:15 - 15:30	Multi-band observations of the blazar 3C454.3 during the outburst in November 2010	<i>Greg Madejski (SLAC)</i>	Gamma-Ray Observations of the Supernova Remnant RX J0852.0-4622 with the Fermi LAT	<i>Takaaki Tanaka (Stanford)</i>
15:30 - 16:00	Coffee Break			

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Parallel Session 11A - AGN III		Parallel Session 11B - Variable Galactic Sources	
16:00 - 16:15	Unifying black hole jets: The connection between blazars and gamma-ray bursts	Rodrigo Nemmen <i>(NASA/GSFC)</i>	On the gamma-ray emission from the Crab Nebula W. Bednarek <i>(University of Lodz)</i>
16:15 - 16:30	Fermi observation of blazars and implications for the origin of gamma-rays	Juri Poutanen <i>(Oulu)</i>	Gamma-ray flares from the Crab Nebula Rolf Buehler <i>(SLAC)</i>
16:30 - 16:45	Challenging the high energy emission zone in flat spectrum radio quasars	Antonio Stamerra <i>(INFN Pisa)</i>	MW Observations of PSR B1259-63 around the 2010-2011 periastron passage Aous Abdo <i>(NRL)</i>
16:45 - 17:00	Fermi Large Area Telescope Detection of Bright Gamma-ray Outbursts from a TeV FSRQ 4C +21.35	Yasayuki Tanaka <i>(ISAS/JAXA)</i>	Expected and unexpected results from 2 years Fermi/LAT monitoring of the two gamma ray binaries LS I +61 303 and LS5039 Daniela Hadasch <i>(I'Espai)</i>
17:00 - 17:15	Physical significance of time lags in radio/gamma-ray cross-correlations for Fermi-GST blazars in the OVRO 40-m blazar monitoring program	Walter Max-Moerbeck <i>(CalTech)</i>	Properties of Supergiant Fast X-ray Transients as observed by Swift Pat Romano <i>(INAF-IASF Palermo)</i>
17:15 - 17:30	First evidence of a gravitational lensing-induced echo in gamma rays with Fermi LAT	Anna Barnacka <i>(Warszawa, CEA/Saclay)</i>	The Fermi Large Area Telescope unveils a cocoon of freshly-accelerated cosmic rays in the Cygnus X region Luigi Tibaldo <i>(INFN Padova)</i>
19:00 - 22:00	Banquet		

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Thursday

Plenary Session 12 - Galactic Sources

9:00 - 9:30	GeV Gamma-ray Observations of SNR	<i>Yasunobu Uchiyama* (SLAC)</i>
9:30 - 10:00	Cosmic-rays and Fermi acceleration	<i>Pasquale Blasi* (Osservatorio Astrofisico di Arcetri)</i>
10:00 - 10:15	Highlights of Galactic Observations with VERITAS	<i>Brian Humensky (Chicago)</i>
10:15 - 10:30	Detections of TeV PWNs with the LAT	<i>Marie-Helene Grondin (Tübingen)</i>

10:30 - 11:00 Coffee Break

Plenary Session 13 - Galactic Transients

11:00 - 11:30	The Crab Nebula - variability and flares from keV to TeV	<i>Colleen Wilson-Hodge* (NASA/MSFC)</i>
11:30 - 12:00	GeV Galactic Transients	<i>Guillaume Dubus* (IPAG, Grenoble)</i>
12:00 - 12:15	Hard X-ray/soft gamma-ray observations of the Galactic diffuse emission with INTEGRAL/SPI	<i>L. Bouchet (IRAP, UPS/CNRS, Toulouse)</i>
12:15 - 12:30	Discovery of the new gamma-ray binary 1FGL J1018.6-5856	<i>Robin Corbet (UMBC/NASA GSFC)</i>

12:30 - 14:00 Lunch

Plenary Session 14 - Pulsars II

14:00 - 14:30	Magnetars and Fermi	<i>Anna Watts* (University of Amsterdam)</i>
14:30 - 14:45	Fermi GBM detection of pulsed emission from 4 AXPs	<i>L. Kuiper (SRON-Utrecht)</i>
14:45 - 15:15	Gamma-ray observations of Pulsars	<i>David Smith* (Bordeaux)</i>
15:15 - 15:30	X-ray observations of gamma-ray only pulsars	<i>Andrea De Luca (Pavia)</i>

15:30 - 16:00 Coffee Break

16:00 - 16:30	Pulsar Theory	<i>Roger Romani* (Stanford University)</i>
16:30 - 16:45	VERITAS Observations of the Crab Pulsar above 100 GeV	<i>Neppomuk Otte (UCSC)</i>

16:45-17:30	Summary and looking forward	<i>Steve Ritz* (UCSC)</i>
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18:30 - 20:00	Public Lecture @ Aula Magna La Sapienza Da Roma all'Universo:Fermi in orbita	<i>Prof. G.F. Bignami</i>
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* invited talks