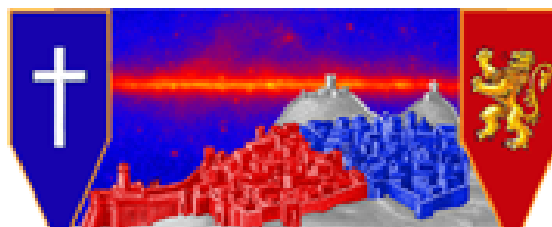
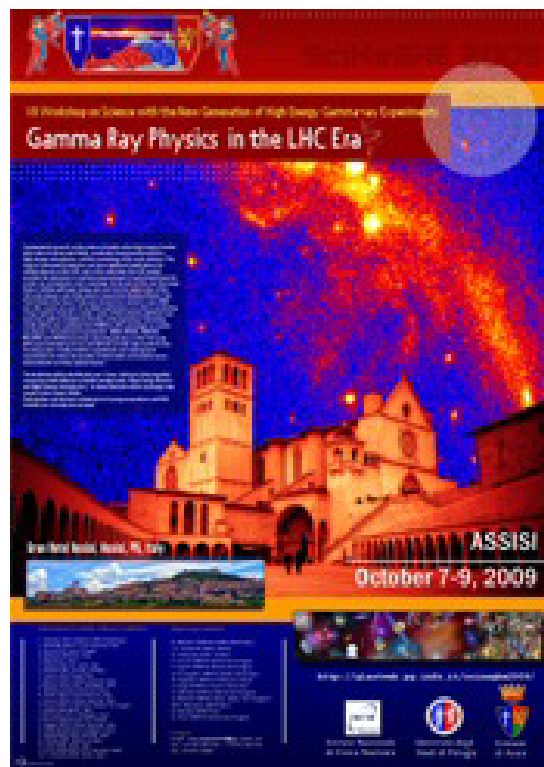


# VII Science with the New Generation of High Energy Gamma-ray Experiments: Gamma Ray Physics in the LHC Era



# Report of Contributions

Contribution ID: 0

Type: **not specified**

## **Welcome by the Dean of the Perugia University Physics Department and Science Faculty**

*Wednesday, October 7, 2009 9:15 AM (15 minutes)*

**Primary author:** Prof. MANTOVANI, Giancarlo (University & INFN Perugia)

**Presenter:** Prof. MANTOVANI, Giancarlo (University & INFN Perugia)

**Session Classification:** Session 00 - Introduction

Contribution ID: 1

Type: **not specified**

# The Fermi Large Area Telescope: Highlights from the first year on orbit

*Wednesday, October 7, 2009 9:30 AM (30 minutes)*

**Primary author:** RAINÒ, Silvia (University & INFN Bari)

**Presenter:** RAINÒ, Silvia (University & INFN Bari)

**Session Classification:** Session 01 - DM: Gamma-ray Experiments (Space & Ground)

Contribution ID: 2

Type: **not specified**

## **The gamma-ray sky seen with H.E.S.S.**

*Wednesday, October 7, 2009 10:00 AM (30 minutes)*

**Primary author:** NAUMANN-GODÓ, Melitta (CEA Saclay)

**Presenter:** NAUMANN-GODÓ, Melitta (CEA Saclay)

**Session Classification:** Session 01 - DM: Gamma-ray Experiments (Space & Ground)

Contribution ID: 3

Type: **not specified**

## The gamma-ray sky seen by AGILE

*Wednesday, October 7, 2009 11:00 AM (30 minutes)*

**Primary author:** STRIANI, Edoardo (INFN Roma2 & IASF-INAF Roma)

**Presenter:** STRIANI, Edoardo (INFN Roma2 & IASF-INAF Roma)

**Session Classification:** Session 01 - DM: Gamma-ray Experiments (Space & Ground)

Contribution ID: 4

Type: **not specified**

## **The PAMELA Space Mission for Antimatter and Dark Matter Searches in Cosmic Rays**

*Wednesday, October 7, 2009 11:30 AM (30 minutes)*

**Primary author:** CAFAGNA, Francesco (INFN Bari)

**Presenter:** CAFAGNA, Francesco (INFN Bari)

**Session Classification:** Session 02- DM: Cosmic-ray experiments (Space)

Contribution ID: 5

Type: **not specified**

## **Astroparticle physics with AMS02**

*Wednesday, October 7, 2009 12:00 PM (30 minutes)*

**Primary author:** INCAGLI, Marco (INFN Pisa)

**Presenter:** INCAGLI, Marco (INFN Pisa)

**Session Classification:** Session 02- DM: Cosmic-ray experiments (Space)



Contribution ID: 6

Type: **not specified**

## Particle Dark Matter and DAMA/LIBRA

*Wednesday, October 7, 2009 2:30 PM (30 minutes)*

**Primary author:** INCICCHITTI, Antonella (INFN Roma1)

**Presenter:** INCICCHITTI, Antonella (INFN Roma1)

**Session Classification:** Session 03 - DM: Direct vs Indirect Searches

Contribution ID: 9

Type: **not specified**

## **Search for Dark Matter in the sky**

*Wednesday, October 7, 2009 2:00 PM (30 minutes)*

**Primary author:** MORSELLI, Aldo (Tor Vergata Univ. & INFN Roma2)

**Presenter:** MORSELLI, Aldo (Tor Vergata Univ. & INFN Roma2)

**Session Classification:** Session 03 - DM: Direct vs Indirect Searches

Contribution ID: **10**

Type: **not specified**

## **Fermi and multi-frequency observations of blazars**

*Wednesday, October 7, 2009 4:30 PM (30 minutes)*

**Primary author:** GIOMMI, Paolo (ASI)

**Presenter:** GIOMMI, Paolo (ASI)

**Session Classification:** Session 04 - Fermi blazars and diffuse emission

Contribution ID: 11

Type: **not specified**

## **Diagnostic of the peak frequencies in the SED of Fermi Blazars**

*Wednesday, October 7, 2009 5:00 PM (30 minutes)*

**Primary author:** TRAMACERE, Andrea (SLAC & CIFS-INAF)

**Presenter:** TRAMACERE, Andrea (SLAC & CIFS-INAF)

**Session Classification:** Session 04 - Fermi blazars and diffuse emission

Contribution ID: 12

Type: **not specified**

## Scientific highlights and status of the MAGIC Telescope

*Thursday, October 8, 2009 9:00 AM (30 minutes)*

**Primary author:** LOPEZ MOYA, Marcos (INFN Padova)

**Presenter:** LOPEZ MOYA, Marcos (INFN Padova)

**Session Classification:** Session 05 - DM: High Energy (Ground)

Contribution ID: 13

Type: **not specified**

## **Results of the ARGO-YBJ experiment at high altitude**

*Thursday, October 8, 2009 9:30 AM (30 minutes)*

**Primary author:** CAMARRI, Paolo (Tor Vergata Univ. & INFN Roma2)

**Presenter:** CAMARRI, Paolo (Tor Vergata Univ. & INFN Roma2)

**Session Classification:** Session 05 - DM: High Energy (Ground)

Contribution ID: 14

Type: **not specified**

## Recent Results from MILAGRO

*Thursday, October 8, 2009 10:00 AM (30 minutes)*

**Primary author:** PRETZ, John (Los Alamos Nat. Lab.)

**Presenter:** PRETZ, John (Los Alamos Nat. Lab.)

**Session Classification:** Session 05 - DM: High Energy (Ground)

Contribution ID: 15

Type: **not specified**

## Dark Matter & New Physics

*Thursday, October 8, 2009 11:30 AM (30 minutes)*

**Primary author:** MASIERO, Antonio (University & INFN Padova)

**Presenter:** MASIERO, Antonio (University & INFN Padova)

**Session Classification:** Session 06 - DM & New Physics



Contribution ID: 16

Type: **not specified**

## **Indirect Search for Dark Matter from the Milky Way center with the LAT**

*Friday, October 9, 2009 2:00 PM (30 minutes)*

**Primary author:** VITALE, Vincenzo (Tor Vergata Univ. & INFN Roma2)

**Presenter:** VITALE, Vincenzo (Tor Vergata Univ. & INFN Roma2)

**Session Classification:** Session 09 - Fermi Pulsars & DM

Contribution ID: 17

Type: **not specified**

## **Detecting new very light bosons by Cherenkov telescopes**

*Thursday, October 8, 2009 12:00 PM (30 minutes)*

**Primary author:** RONCADELLI, Marco (DFNT Univ. & INFN Pavia)

**Presenter:** RONCADELLI, Marco (DFNT Univ. & INFN Pavia)

**Session Classification:** Session 07 - DM: High Energy (Ground & Underground)

Contribution ID: **18**

Type: **not specified**

## **Dark matter searches with H.E.S.S.**

*Thursday, October 8, 2009 2:00 PM (30 minutes)*

**Primary author:** OPITZ, Björn (Hamburg Univeristy)

**Presenter:** OPITZ, Björn (Hamburg Univeristy)

**Session Classification:** Session 07 - DM: High Energy (Ground & Underground)

Contribution ID: 19

Type: **not specified**

## **New born UHECR versus future Tau Neutrino Astronomy**

*Thursday, October 8, 2009 2:30 PM (30 minutes)*

**Primary author:** FARGION, Daniele (La Sapienza Univ. & INFN Roma1)

**Presenter:** FARGION, Daniele (La Sapienza Univ. & INFN Roma1)

**Session Classification:** Session 07 - DM: High Energy (Ground & Underground)

Contribution ID: 20

Type: **not specified**

## **The Fermi observations of the gamma ray bursts**

*Friday, October 9, 2009 9:00 AM (30 minutes)*

**Primary author:** MORETTI, Elena (University & INFN Trieste)

**Presenter:** MORETTI, Elena (University & INFN Trieste)

**Session Classification:** Session 08- Fermi GRBs & New Physics

Contribution ID: 21

Type: **not specified**

## **GRB090510: a short bright and hard GRB detected by Fermi**

*Friday, October 9, 2009 9:30 AM (30 minutes)*

**Primary author:** DE PALMA, Francesco (University & INFN Bari)

**Presenter:** DE PALMA, Francesco (University & INFN Bari)

**Session Classification:** Session 08- Fermi GRBs & New Physics

Contribution ID: 22

Type: **not specified**

## **The Fermi Gamma-Ray Burst Monitor: results from the first year**

*Friday, October 9, 2009 10:00 AM (30 minutes)*

**Primary author:** BISSALDI, Elisabetta (MPE Garching)

**Presenter:** BISSALDI, Elisabetta (MPE Garching)

**Session Classification:** Session 08- Fermi GRBs & New Physics

Contribution ID: 23

Type: **not specified**

## **High Energy Pulsars detection with Fermi LAT**

*Friday, October 9, 2009 11:30 AM (30 minutes)*

**Primary author:** GIORDANO, Francesco (University & INFN Bari)

**Presenter:** GIORDANO, Francesco (University & INFN Bari)

**Session Classification:** Session 09 - Fermi Pulsars & DM



Contribution ID: 24

Type: **not specified**

## **Fermi measurements of diffuse gamma-ray emission: results at the first-year milestone**

*Wednesday, October 7, 2009 5:30 PM (30 minutes)*

**Primary author:** TIBALDO, Luigi (University & INFN Padova)

**Presenter:** TIBALDO, Luigi (University & INFN Padova)

**Session Classification:** Session 04 - Fermi blazars and diffuse emission

Contribution ID: 25

Type: **not specified**

## **Measurement of the high energy cosmic ray electron spectrum with the Fermi Large Area Telescope**

*Friday, October 9, 2009 12:00 PM (30 minutes)*

**Primary author:** LOPARCO, Francesco (INFN Bari)

**Presenter:** LOPARCO, Francesco (INFN Bari)

**Session Classification:** Session 09 - Fermi Pulsars & DM

Contribution ID: 26

Type: **not specified**

## **CTA: a project for a new generation of Cherenkov telescopes detector**

*Friday, October 9, 2009 2:30 PM (30 minutes)*

**Primary author:** MARIOTTI, Mosè (University & INFN Padova)

**Presenter:** MARIOTTI, Mosè (University & INFN Padova)

**Session Classification:** Session 10 - The Future

Contribution ID: 27

Type: **not specified**

## The AUGER Experiment

*Thursday, October 8, 2009 3:00 PM (30 minutes)*

**Primary author:** MARTELLO, Daniele (University of Salento)

**Presenter:** MARTELLO, Daniele (University of Salento)

**Session Classification:** Session 07 - DM: High Energy (Ground & Underground)

Contribution ID: 28

Type: **not specified**

## The HAWC Gamma-Ray Observatory

*Friday, October 9, 2009 3:00 PM (30 minutes)*

**Primary author:** SMITH, Andrew (University of Maryland)

**Presenter:** SMITH, Andrew (University of Maryland)

**Session Classification:** Session 10 - The Future

Contribution ID: 29

Type: **not specified**

## Summary on Gamma-ray Astrophysics

*Friday, October 9, 2009 4:00 PM (30 minutes)*

**Primary author:** TESHIMA, Masahiro (MPG München)

**Presenter:** TESHIMA, Masahiro (MPG München)

**Session Classification:** Session 11 - Summary

Contribution ID: **31**

Type: **not specified**

## Final remarks

*Friday, October 9, 2009 4:30 PM (15 minutes)*

**Primary author:** MORSELLI, Aldo (Tor Vergata Univ. & INFN Roma2)

**Presenter:** MORSELLI, Aldo (Tor Vergata Univ. & INFN Roma2)

**Session Classification:** Session 11 - Summary

Contribution ID: 33

Type: **not specified**

## Understanding Dark Matter with Fermi and the CLUES Simulation

*Thursday, October 8, 2009 11:00 AM (30 minutes)*

**Primary author:** CAÑADAS, Beatriz (Autonoma de Madrid Univ. & INFN Roma2)

**Presenter:** CAÑADAS, Beatriz (Autonoma de Madrid Univ. & INFN Roma2)

**Session Classification:** Session 06 - DM & New Physics



Contribution ID: 34

Type: **not specified**

## **Fermi and other Gamma-ray Tests for Lorentz Invariance Violation and Quantum Gravity Models**

*Friday, October 9, 2009 11:00 AM (30 minutes)*

**Primary author:** STECKER, Floyd W. (NASA Goddard Space Flight Center)

**Presenter:** STECKER, Floyd W. (NASA Goddard Space Flight Center)

**Session Classification:** Session 08- Fermi GRBs & New Physics

Contribution ID: 35

Type: **not specified**

## **Supersymmetric WIMPs: neutralinos and sneutrinos**

*Wednesday, October 7, 2009 3:00 PM (30 minutes)*

**Primary author:** CERDENO, David G. (Autonoma de Madrid University)

**Presenter:** CERDENO, David G. (Autonoma de Madrid University)

**Session Classification:** Session 03 - DM: Direct vs Indirect Searches

Contribution ID: 36

Type: **not specified**

## **Cosmic Gamma-ray from inverse-Compton Process in Unstable Dark Matter Scenario**

*Wednesday, October 7, 2009 4:00 PM (30 minutes)*

**Primary author:** ISHIWATA, Koji (Tohoku University)

**Presenter:** ISHIWATA, Koji (Tohoku University)

**Session Classification:** Session 03 - DM: Direct vs Indirect Searches

Contribution ID: 38

Type: **not specified**

## **Fermi-Swift synergetic campaign on the new gamma-ray blazar PKS 1502+106**

*Friday, October 9, 2009 5:00 PM (5 minutes)*

**Primary author:** CIPRINI, Stefano (Perugia University & ASI-INAF)

**Presenter:** CIPRINI, Stefano (Perugia University & ASI-INAF)

**Session Classification:** Posters

Contribution ID: 39

Type: **not specified**

## **Fermi high energy observation of GRB 090217**

*Friday, October 9, 2009 5:05 PM (5 minutes)*

**Primary author:** CUTINI, Sara (ASDC Roma)

**Presenter:** CUTINI, Sara (ASDC Roma)

**Session Classification:** Posters

Contribution ID: 40

Type: **not specified**

## **Fermi high energy observation of GRB 090217**

Contribution ID: 41

Type: **not specified**

## **Analysis of the Spectral Energy Distributions of Fermi bright blazars**

*Friday, October 9, 2009 5:10 PM (5 minutes)*

**Primary author:** GASPARRINI, Dario (ASDC Roma)

**Presenter:** GASPARRINI, Dario (ASDC Roma)

**Session Classification:** Posters

Contribution ID: 42

Type: **not specified**

## **Observation of the Crab Pulsar and Nebula with the Fermi Large Area Telescope**

*Friday, October 9, 2009 5:15 PM (5 minutes)*

**Primary author:** MAZZIOTTA, Mario Nicola (INFN Bari)

**Presenter:** MAZZIOTTA, Mario Nicola (INFN Bari)

**Session Classification:** Posters



Contribution ID: 43

Type: **not specified**

# Monte Carlo Studies of Very High Energy Gamma-ray Propagation in the Intergalactic Medium

*Friday, October 9, 2009 5:20 PM (5 minutes)*

**Primary author:** WEISGARBER, Thomas R. (Chicago University)

**Presenter:** WEISGARBER, Thomas R. (Chicago University)

**Session Classification:** Posters