

Welcome to Lecce and to SciNeGHE 2012

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SciNeGHE 2012

*9th Workshop on
Science with the New Generation of
High Energy Gamma-ray Experiments*

Lecce, June 20 -22, 2012

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workshop

The 2012 edition of the SciNeGHE conference, after a session dedicated to the history of the cosmic radiation research in the centenary of its discovery, will focus on the interplay between the studies and measurements concerning high energy gamma ray sources and cosmic rays.

Latest experimental results give new tools for the study of the emission mechanisms governing gamma-ray sources by using complementary information coming from the charged cosmic rays and high energy neutrino observatories.

An update on the current and planned research for space-borne and ground-based experiments dedicated to the observation of the gamma and cosmic-ray sky will be given.

The R&D programs going on to set up new observational techniques and devices will also be covered.

Conference venue
Officine Cantelmo
Viale De Pietro
I-73100 Lecce, Italy

Supported by
INFN (Istituto Nazionale di Fisica Nucleare)
Università del Salento
Dipartimento di Matematica e Fisica - Università del Salento
Dipartimento Interateneo di Fisica - Università di Bari
ARAP (Associazione Romana per le AstroParticelle)

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**From high energy gamma sources to cosmic rays,
one century after their discovery**







Logos at the bottom: INFN, Università del Salento, Dipartimento di Matematica e Fisica, Dipartimento di Fisica, Monte dei Paschi di Siena Banca dal 1872, ARAP, Credit: NASA, Cosmic Project MP

The agenda

- High energy gamma rays
- Cosmic rays
- High energy neutrino astronomy
- Future experiments
- Poster session

SciNeGHE 2012
from Tuesday 19 June 2012 (18:00) to Friday 22 June 2012 (19:30)

: Sessions / : Talks : Breaks

	Tuesday 19 June 2012	Wednesday 20 June 2012	Thursday 21 June 2012	Friday 22 June 2012	
AM		08:30 Registration (until 09:00) 09:00 Welcome 09:10 One century of cosmic ray studies (until 10:55) 09:10 Studies and measurements before 1912 - Alessandro De Angelis (INFN / Univ. di Udine) 09:45 The Hess balloon flights - Michael Walter (DESY) 10:20 The history of cosmic ray studies after Hess - Claus Grupen (Siegen University) 10:55 Coffe Break (until 11:15) 11:15 One century of cosmic ray studies (until 13:00) 11:15 The history of gamma ray studies - Razmik Mirzoyan (MPI - Munich) 11:50 The status of current research: theory - Paolo Lipari (INFN - Roma 1) 12:25 The status of current research: experiments - Roberto Battiston (Univ. of Perugia and INFN)	09:00 The cosmic-ray sky as seen from space (until 11:25) 09:00 Direct measurements of cosmic rays in space - Roberta Sparvoli (ROMA2) 09:35 Anisotropy studies in proton flux with the PAMELA experiment - UGO GIACCARI (INFN Napoli) 10:00 The Fermi Large Area Telescope as a Cosmic-ray detector - Carmelo Sgro' (INFN-Pisa)   10:25 The AMS-02 Experiment: one year in space - Cecilia Pizzolotto (INFN Perugia) 10:50 Origin of Galactic Cosmic Rays - Pasquale Blasi (INAF/Osservatorio Astrofisico di Arcetri) 11:25 Coffe Break (until 11:45) 11:25 The gamma-ray sky (until 13:05) 11:45 Supernova remnant studies with Fermi-LAT - John Hewitt (NASA Goddard) 12:00 The First Fermi LAT Catalog of Supernova Remnants - Francesco De Palma (INFN BA) 12:15 AGILE study of Supernova Remnants - Andrea Giuliani (INAF-Istituto Nazionale di Astronomia - IASF Milano) 12:40 Constraints on dark matter annihilation and decay in the Milky Way halo - Gabrijela Zaharijas (ICTP, Trieste)	09:00 The cosmic-ray sky as seen from ground (or below) (until 10:55) 09:00 Review of indirect cosmic ray measurements - Andrea Chiavassa (Univ. of Torino and INFN) 09:40 Cosmic Ray Physics with ARGO-YBJ - Michele Iacovacci (Universita' di Napoli and INFN) 10:05 Latest results of the Pierre Auger Observatory - Mariangela Settimo (University of Siegen) 10:30 TeV Gamma anisotropy connection with UHECR map: solving the link by ultrarelativistic radioactive nuclei decay in flight? - Daniele Fargion (ROMA1) 10:55 Coffee Break (until 11:20) 11:20 The cosmic-ray sky as seen from ground (or below) (until 12:35) 11:20 Propagation and Spectrum of Ultra High Energy Cosmic Rays - Roberto Aloisio (INAF - Osservatorio Astrofisico Arcetri) 11:45 Hunting for cosmic neutrinos deep under the sea: The ANTARES experiment - Vincenzo Flamini (PI) 12:10 Neutrinos searches with the IceCube telescope - Juan Antonio Aguilar Sanchez (University of Geneva) 12:35 Future Projects (until 13:00) 12:35 The Gamma Light project - Marco TAVANI (INAF-IAPS and University of Rome Tor Vergata)	
PM	18:00 Registration and Welcome Cocktail (until 20:00)	13:00 Lunch (until 14:30) 14:30 The gamma-ray sky (until 16:45) 14:30 VHE emission from extragalactic sources: open issues from MWL observations - Antonio Stamerra (SI)   15:05 Observations of Pulsar Wind Nebulae in Gamma-rays from GeV to TeV energies - Marie-Hélène Grondin (Max-Planck Institut für Kernphysik (MPIK) Heidelberg, Germany) 15:30 Study of the Galactic Gamma-ray Sources with VERITAS - Gareth Hughes (DESY Zeuthen) 15:55 Overview of the Galactic results obtained by MAGIC - Roberta Zanin (Universitat de Barcelona) 16:20 Gamma-ray emission from Crab pulsar and the nebula: paradigm shifts? - Maxim Lyutikov Lyutikov (Purdue University/Arcetri Observatory) 16:45 Coffe Break (until 17:15) 17:15 The gamma-ray sky (until 19:20) 17:15 Cosmic rays: interstellar gamma-ray and radio emission from our Galaxy - Orlando Elena (Stanford University/KIPAC) 17:40 The Fermi LAT view of Cygnus: a laboratory to understand cosmic-ray acceleration and transport - Luca Tibaldo (PD)  18:05 Search and Characterization of Radio-quiet Gamma-ray Pulsars with Fermi-LAT - andrea belfiore (UCSC-SCIIPP INAF-IASF) 18:30 Supergiant Fast X-ray Transients as best candidate counterparts of galactic unidentified gamma-ray transients - vito sguera (INAF-IASF Bologna)  18:55 Searching for the gamma-ray emission of HESS J0632+057 - Giuseppe Andrea Caliendo (CSIC) 19:30 Guided tour in the Lecce historic center (until 21:00)	13:05 Lunch (until 14:15) 14:15 Poster Session (until 15:15) 15:15 The gamma-ray sky (until 17:20) 15:15 Constraining dark matter signal from a combined analysis of Milky Way satellites with the Fermi-LAT - Maja Llena Garde (Oskar Klein Centre, Stockholm University) 15:40 A new survey technique at soft gamma-ray energies - Eugenio Bottacini (Stanford University) 16:05 Gamma ray astronomy with ARGO-YBJ - Silvia Veretto (INAF Torino and INFN) 16:30 AGILE and ASDC - Carlotta Pittori (INAF-OAR/ASDC) 16:55 GRB emission: status and questions - Lorenzo Amati (INAF-IASF Bologna) 17:30 Excursion to Gallipoli (until 20:00) 20:00 Social Dinner (until 23:30)	13:05 Lunch (until 14:10) 14:10 Future Projects (until 16:55) 14:10 CALET: a calorimeter for cosmic-ray measurements in space - Nicola Mori (FI) 14:35 The GAMMA-400 Space Experiment: Gammas, Electrons and Nuclei Measurements - Emiliano Mocchiutti (TS) 15:00 The Cerenkov Telescope Array (CTA) - Massimo Persic (INAF Trieste and INFN) 15:25 Science with the ASTRI prototype - Nicola SARTORE (INAF - Milano) 15:40 Status and updates from the High Altitude Water Cherenkov (HAWC) Observatory - Brian Baughman (University of Maryland, College Park) 16:05 The LHAASO project - Cunfeng Feng (Shandong University) 16:30 An overview of the JEM-EUSO mission - Mario Edoardo Bertina (INFN Torino) 16:55 Summary talk - Francesco Longo (Universita' di Trieste and INFN) 17:25 "Departure" Coffee (until 17:45) 17:45 Bus transfer to the Brindisi airport (until 18:30)	

46 talks + 14 posters

From the circular #2..

Instructions for speakers

Talks will last 35 or 25 minutes. Please note that these time slots include time left for questions (at least 3 minutes).

Speakers will use a laptop already prepared for the workshop. They are asked to prepare their presentations in pdf format and upload the corresponding file at least one day before the talk on the indico web site. As an alternative, speakers could give a copy of their presentation to the workshop help desk, within the day before the talk.

Instructions for preparing posters

Each poster contribution will have to be printed in A0 format.

Posters will be placed in an open space close by the main workshop hall.

The poster session will last one hour on june 21 afternoon.

**Best poster award
during the social
dinner**

Proceedings

All speakers and poster presenter will be asked to prepare their papers for the conference proceedings within the deadlines specified on the workshop website.

The proceedings will be published, after a peer review process, on an international scientific journal. Further information will be soon given to participants by email and/or through the workshop web site.

Deadline : Sep. 30

Social events

- June 19, 7 p.m.: Welcome cocktail will be given at the workshop venue
- June 20, evening: guided tour in the Lecce historic center.
- June 21, afternoon/evening: guided tour in the ancient town of Gallipoli, on the Ionian sea.
- June 21, social dinner in the restaurant “Il Bastione” , Gallipoli.

