

TeV Particle Astrophysics 2010

Plenary Sessions, Salon Honnorat (Cite Universitaire)

Monday 19/7 8am -1pm	Tuesday 20/7 9am - 1pm	Wed. 21/7 9am - 1pm	Thursday 22/7 9am – 1pm	Friday 23/7 9am – 1pm
8.00 - 9.00: Registration & Welcome Breakfast				
9.00: U. Bassler Opening address 9.10: G. Bertone Overview				
9.20: L. Hsu <i>Direct dark matter search with cryogenic experiments</i>	9.00:G. Ghisellini <i>HE emission from GRBs</i>	9.00: G. Sigl <i>UHECRs</i>	9.00: T. Tait <i>New Physics at the LHC</i>	9.00: C. Frenk <i>The small scale structure of the Universe</i>
10.00: T. Marrodan <i>Direct dark matter search using liquid noble gases</i>	9.40: Y. Lyubarski <i>Astrophysical jets</i>	9.40: S. BenZvi <i>Observations of the UHE Sky at Auger</i>	9.40: A. Lankford <i>Status of the LHC</i>	9.40: A. Zentner <i>Effect of baryons on dark matter halos</i>
10.40 Coffee Break	10.20 Coffee Break	10.20 Coffee Break	10.20 Coffee Break	10.20 Coffee Break
11.00: T. Bringmann <i>Indirect DM searches</i>	10.50: T. Porter <i>Diffuse gamma-ray emission after Fermi</i>	10.50: M. Kachelriess <i>Gamma-rays from UHECRs sources</i>	10.50: G. Gelmini <i>Dark Matter at the weak scale</i>	10. 50: J. Hinton <i>Present and future ACTs</i>
11.40: S. Murgia <i>Investigating Dark Matter with the Fermi LAT</i>	11.30: S. Casanova <i>TeV diffuse galactic gamma-ray emission</i>	11.30: A. Kounine <i>Physics of the AMS experiment</i>	11.30: L. Covi <i>Dark Matter candidates other than WIMPs</i>	11.30: A. Spitkovsky <i>Pulsars</i>
12.20: M. Fairbairn <i>Dark Matter and Stars</i>	12.10: D. Williams <i>Status of the IceCube Neutrino Observatory</i>	12:10: S. Sarkar <i>Theoretical interpretation of GeV-TeV cosmic rays</i>	12.10: R. Trotta <i>Prospects for DM detection from global fits of SUSY</i>	12.10: J. Silk <i>Summary talk</i>
				End of the Conference

Schedule of Parallel Sessions (detailed programme below)

at Institut d'Astrophysique de Paris (IAP)

Monday 19/7	Tuesday 20/7	Wed. 21/7	Thursday 22/7	Friday 23/7
2.30 pm – 4.30pm	2.30 pm – 4.30pm	2.30 pm – 4.30pm	2.30 pm – 4.30pm	<i>No Parallel Sessions on Friday</i>
Direct DM searches I (A) Conveners: K. Ni (<i>Shanghai Jiao Tong U.</i>) & E. Pantic (<i>UCLA</i>)	Cosmic Rays I (A) Conveners: E. Amato (INAF Arcetri) & D. Semikoz - (APC Paris)	Indirect DM searches with photons I (A) Conveners: P. Serpico (<i>CERN & Annecy</i>) & J. Siegal-Gaskins (<i>OSU</i>)	Indirect DM searches with anti-matter and neutrinos I (A) Conveners: D. Hooper (<i>FNAL</i>) & L. Pieri (<i>INFN Pd</i>)	
Interdisciplinary Session I (B) Chair: P. Brun (IRFU Saclay) & F. locco (IAP)	Neutrinos (B) Conveners: O. Mena (IFIC Valencia) & E. Resconi (Heidelberg)	High-Energy Astrophysics I (B) Conveners: F. Daigne (IAP) and V. Pavlidou (Caltech)	Particle Physics II (B) Conveners: S. Heinemeyer (IFCA Santander) and A. Ibarra (TUM Munich)	
<i>4.30pm-5pm: Coffee Break</i>	<i>4.30pm-5pm: Coffee Break</i>	<i>4.30pm-5pm: Coffee Break</i>	<i>4.30pm-5pm: Coffee Break</i>	
5pm - 7pm	5pm - 7pm	5pm - 7pm	5pm - 7pm	
Direct DM searches II (A) Conveners: K. Ni (<i>Shanghai Jiao Tong U.</i>) & E. Pantic (<i>UCLA</i>)	Cosmic Rays II (A) Conveners: E. Amato (INAF Arcetri) & D. Semikoz - (APC Paris)	Indirect DM searches with photons II (A) Conveners: P. Serpico (<i>CERN & Annecy</i>) & J. Siegal-Gaskins (<i>OSU</i>)	Indirect DM searches with anti-matter and neutrinos II (A) Conveners: D. Hooper (<i>FNAL</i>) & L. Pieri (<i>INFN Pd</i>)	
Interdisciplinary Session II (B) Chair: P. Brun (IRFU Saclay) & G. Zaharijas (IPhT Saclay)	Particle Physics I (B) Conveners: S. Heinemeyer (IFCA Santander) and A. Ibarra (TUM Munich)	High-Energy Astrophysics II (B) Conveners: F. Daigne (IAP) and V. Pavlidou (Caltech)	Cosmic Rays III (B) Conveners: E. Amato (INAF Arcetri) & D. Semikoz - (APC Paris)	
(A) Amphitheatre	(B) Salle des seminaires		8.30pm Dinner at <i>Le train Bleu</i>	

Monday 19/7, 2.30 – 4.30pm

Direct DM searches I.

Conveners: K. Ni (*Shanghai Jiao Tong U.*) & E. Pantic (*UCLA*)

Claudia Nones (17'+5')

Direct search for Dark Matter with the EDELWEISS-II experiment: status and results

Alfredo Davide Ferella (17'+5')

Dark Matter direct search with the XENON100 experiment. Results and perspectives.

Miguel Pato (17'+5')

Systematic uncertainties in the determination of the local dark matter density

Riccardo Catena (17'+5')

A novel determination of the local dark matter density

Paolo Salucci (17'+5')

The distribution of dark matter in galaxies

Interdisciplinary Session I (Multimessenger HE astrophysics)

Chair: P. Brun (*IRFU Saclay*) & F. Iocco (*IAP*)

Wystan Benbow (22'+5')

Results from VERITAS Extragalactic Observations

Paolo Maestro (22'+5')

Cosmic ray energy spectra up to 10^{14} eV from the 1st CREAM flights

Patrick Berghaus (22'+5')

Cosmic ray physics with IceCube

Segev BenZvi (22'+5')

Observation of Structure in the Arrival Directions of TeV CRs with IceCube

Monday 19/7, 5 – 7pm

Direct DM searches II.

Conveners: K. Ni (*Shanghai Jiao Tong U.*) & E. Pantic (*UCLA*)

Keith Rielage (17'+5')

The MiniCLEAN dark matter experiment

Kazuyoshi Kobayashi (17'+5')

XMASS experiment

Ursina Degunda (17'+5')

ArDM: Double Phase Argon Calorimeter and TPC for Direct Detection of DM

Juan Estrada (17'+5')

Low threshold DM search with CCDs

Qian Yue (17'+5')

The recent status of CJPL and CDEX

Interdisciplinary Session II (Multimessenger HE astrophysics)

Chair: P. Brun (*IRFU Saclay*) & G. Zaharijas (*IPhT-Saclay CEA*)

Yves Gallant (22'+5')

TeV Galactic Source Physics with CTA

Rosa Coniglione (22'+5')

KM3NeT: a project for an underwater cubic kilometer neutrino telescope

Raymond Frey (22'+5')

Gravitational-wave transient detection and multi-messenger astroph.

Dave Besson (22'+5')

ARA

Tuesday 20/7, 2.30 – 4.30pm

Neutrinos

Conveners: O. Mena (IFIC Valencia) & E. Resconi (Heidelberg)

Sirin Odrowski (17'+3')

Neutrino point sources: Search strategies and results from IceCube

Jean-Pierre Ernenwein (17'+3')

The ANTARES deep-sea neutrino telescope

Juan de Dios Zornoza (17'+3')

Search of point sources with the ANTARES neutrino telescope

Claudine Colnard (17'+3')

Status of IceCube-DeepCore: Sensitivity study for the Southern Hemisphere

Jairo Cavalcante de Souza (17'+3')

Indirect detection of supersymmetric particles with neutrino telescopes

Nissim Fraija (17'+3')

Propagation of neutrinos through magnetized gamma-ray burst fireball

Cosmic Rays I.

Conveners: E. Amato (INAF Arcetri) & D. Semikoz - (APC Paris)

Gordon Thomson (17'+3')

Results from the High Resolution Fly's Eye Experiment

Yuichiro Tameda (17'+3')

Result from the Telescope Array Experiment

Andrew Taylor (17'+3')

The Heavy Nuclei Composition of UHECRs

Gwenael Giacinti (17'+3')

Propagation of UHECR heavy nuclei in the Galactic Magnetic Field

Antoine Calvez (17'+3')

Role of gal. sracs and B fields in forming the obs. E-dependent comp. of UHECRs

Kumiko Kotera (17'+3')

Magnetars as sources of UHECRs

Tuesday 20/7, 5 – 7pm

Particle Physics I.

Conveners: S. Heinemeyer (IFCA) and A. Ibarra (TUM)

David Cerdeño (25'+5')

WIMP dark matter candidates

Takeo Moroi (25'+5')

SuperWIMP dark matter

Jason Kumar (17'+3')

TeV Probes of WIMPless Dark Matter

Tracy Slatyer (17'+3')

The Sommerfeld enhancement for thermal relic DM with an excited state

Carlos Yaguna: (17'+3')

The inert doublet model of dark matter revisited

Cosmic Rays I.

Conveners: E. Amato (INAF Arcetri) & D. Semikoz - (APC Paris)

Kenji Shinozaki (19'+3')

Status of the JEM-EUSO Mission

Felix Aharonian (19'+3')

Angular, spectral & temporal features of HE protons, gamma-rays and neutrinos propagating through the intergalactic radiation and magnetic field

Warren Essey (19'+3')

Cosmic Ray astronomy with secondary gamma-rays and neutrinos

Markus Ahlers (19'+3')

GZK Neutrinos after the Fermi-LAT Diffuse Photon Flux

Daniele Fargion (19'+3')

UHECR composition and Map versus UHE Tau Neutrino Astronomy

Wednesday 21/7, 2.30 – 4.30pm

Indirect DM searches with photons I

Conveners: P. Serpico (CERN & Annecy) & J. Siegal-Gaskins (OSU)

Beatriz Cañadas (17'+3')

Indirect Search for Dark Matter with Fermi from the Galactic Center

Celine Boehm (17'+3')

Can the morphology of gamma-ray emission distinguish annihilating from decaying DM?

Sergio Palomares-Ruiz (17'+3')

Constraining Dark Matter Properties from a Gamma-Ray Detection

Paolo Panci (17'+3')

Diffuse gamma ray constraints on annihilating or decaying Dark Matter after FERMI

Miguel Angel Sanchez-Conde (17'+3')

Looking into the dark: the fingerprint of neutralinos and axions in gamma-rays

Brandon Hensley (17'+3')

Detectability and Spectrum of Annihilating DM Using Anisotropies in the Fermi GRB

High-Energy Astrophysics I

Conveners: F. Daigne (IAP) and V. Pavlidou (Caltech)

Dimitrios Giannios (24'+4')

Understanding the ultrafast variability from blazars

Matthew Dalton (24'+4')

H.E.S.S. Unidentified Sources as PWNe: HESS J1303-631

Jean-Marc Casandjian (24'+4')

Galactic and Extragalactic Diffuse Studies with Fermi

Reshmi Mukherjee (15'+4')

Galactic Sources of VHE Gamma-Ray Emission: Highlights from VERITAS

Giovanni Morlino (12'+3')

High Energy Emission from SNR RX J1713

Stephane Vincent (12'+3')

Production of TeV Gamma Radiation in the Vicinity of the SMBH

Wednesday 21/7, 5 – 7pm

Indirect DM searches with photons II

Conveners: P. Serpico (CERN & Annecy) & J. Siegal-Gaskins (OSU)

Matthieu Vivier (17'+3')

Searches for a DM annihilation signal toward dwarf galaxies with VERITAS

Dan Hooper (17'+3')

Dark Matter Subhalos In the Fermi First Source Catalog

Douglas Finkbeiner (17'+3')

Fermi Bubbles, the haze, and dark matter

Greg Dobler (17'+3')

One Coin, Two Sides: the Microwave and Gamma-Ray Haze

Dmitry Malyshev (17'+3')

Gamma-ray Haze via Dark Matter and Millisecond Pulsars

Philipp Mertsch (17'+3')

Systematic effects in the extraction of the WMAP haze

High-Energy Astrophysics II

Conveners: F. Daigne (IAP) and V. Pavlidou (Caltech)

Shin'ichiro Ando (15'+4')

Discovery of γ -ray halos around AGNs. 1st measurement of intergalactic B fields

Rudy Gilmore (15'+4')

CBR and Extragalactic Gamma-ray Opacity

Clementina Medina (15'+4')

Heavy jet for radiogalaxies

Quirin Weitzel (15'+4')

Recent Results from the MAGIC Telescopes

Damiano Caprioli (15'+4')

Gamma-rays from heavy nuclei accelerated in SNRs

Ievgen Vovk (15'+4')

Evidence for Strong Extragal. B Fields from Fermi TeV Blazars

Thursday 22/7, 2.30 – 4.30pm

Indirect DM searches with anti-matter and neutrinos I.
Conveners: D. Hooper (FNAL) & L. Pieri (INFN Pd)

Timur Delahaye (17'+3')

Cosmic electron and positron fluxes at the Earth

Julien Lavalle (17'+3')

Indirect dark matter detection in light of high-resolution N-body simulation results

Silvia Galli (17'+3')

Recombining the Universe with dark matter: constraints on self-annihilation cross sections

Roland Crocker (17'+3')

Radio and gamma-ray constraints on dark matter annihilation in the Galactic center

Riccardo Catena (17'+3')

Bounds on Evolution Histories of the Early Universe from indirect dark matter searches

Ilias Cholis (17'+3')

Cosmic Ray Signals from Multiple States of Dark Matter

Particle Physics II.

Conveners: S. Heinemeyer (IFCA) and A. Ibarra (TUM)

Genevieve Belanger (23'+5')

Interplay of Dark Matter and Collider physics

Frederic Ronga (23'+5')

Particle Physics Data: Expectations for Direct Detection/Astrophysics

D. Montanino (23'+5')

Conversion of TeV photons into axion-like particles in extragal. magnetic fields

Mattia Fornasa (15'+3')

Interpretation of Dark Matter particles with LHC and direct detection data

Eniko Regoes (15'+3')

Low-Scale Gravity Black Holes at LHC

Thursday 22/7, 5 – 7pm

Indirect DM searches with anti-matter and neutrinos II
Conveners: D. Hooper (FNAL) & L. Pieri (INFN Pd)

Pearl Sandick (17'+3')

Signatures of Dark Star Remnants in the Galactic Halo

Claes-Erik Rydberg (17'+3')

Observational constraints on Dark Stars with HST and JWST

Jan-Patrick Hülß (17'+3')

Search for Neutrinos from the Dark Matter Halo of the Galaxy with IceCube

Matthias Danninger (17'+3')

Searches for Dark Matter Annihilations in the Sun and Earth with IceCube and DeepCore

David Tran (17'+3')

Gamma-ray and neutrino signatures of unstable dark matter

Douglas Spolyar (17' + 3')

Detecting Dark with IceCube

Cosmic Rays III.

Conveners: E. Amato (INAF Arcetri) & D. Semikoz - (APC Paris)

Damiano Caprioli (25'+5')

Non-linear diffusive shock acc. and the SN paradigm for galactic CRs

Giovanni Morlino (25'+5')

Shock acceleration in partially ionized plasmas

Sergey Ostapchenko (25'+5')

Spectra of e+ and p-bar from a time dependent modeling of SNRs

Norita Kawanaka (25'+5')

Injections of e+e- from nearby pulsars and their GeVTeV Spectral features

