

WG 1 - Gamma Astronomy

Monday 8/28 2:30 PM Room 2103

M Teshima / F Krennrich, Presenters

Organized by F Ahorianian / G Sinnis

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|-------|--|--|
| 14:30 | Hans Krimm
(20 mins)Goddard Space Flight Ctr | Gamma-ray observations with SWIFT and their impact |
| 14:55 | Soeb Razzaque
(20 mins)Penn State University | High-energy emissions from gamma-ray bursts |
| 15:20 | Jennifer Carson
(20 mins)SLAC | GLAST: Physics goals and experimental status |
| 15:45 | Dieter Horns (for German Hermann)
(20 mins)MPI fuer Astrophysik, Heidelberg | HESS: Status and future plans |

16:10

Coffee Break

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|-------|---|---|
| 16:30 | Jordan Goodman
(20 mins)University of Maryland | Study of galactic gamma ray sources with Milagro |
| 16:55 | Berrie Giebels
(20 mins)Ecole Polytechnique, Palaiseau | Study of extragalactic sources with HESS |
| 17:20 | Masahiro Teshima
(20 mins)MPI fuer Physik, Munich | Status of the MAGIC telescope |
| 17:45 | Andrew Smith
(15 mins)University of Maryland | The next generation all-sky gamma-ray telescope: miniHAWC |
| 18:05 | Dieter Horns
(25 mins)University of Tuebingen | Study of galactic sources with HESS |
| 18:35 | Simon Swordy
(20 mins)University of Chicago | Future directions in ground-based gamma-ray astronomy |
| 19:00 | | Session ends |

WG 2 - UHE Cosmic Rays

Monday 8/28 2:30 PM Room 2241

T Gaisser / P L Ghia, Presenters and Organizers

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|-------|---|--|
| 14:30 | Simon Swordy
(25 mins)University of Chicago | Direct measurements of Cosmic Rays |
| 15:00 | Andreas Haungs
(25 mins)Forschungszentrum Karlsruhe | PeV- EeV air showers: Cosmic Rays from the Knee to the Ankle |
| 15:30 | Scott Wakely
(10 mins)University of Chicago | Ground-based observations of TeV Cosmic Rays using direct Cerenkov radiation |
| 15:45 | Pasquale Blasi
(20 mins)INAF / Arcetri Astrophysical Observatory | Particle development at shock fronts: Some recent developments |

16:10

Coffee Break

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|-------|--|--|
| 16:30 | Masahiro Teshima
(20 mins)MPI fuer Physik, Munich | AGASA |
| 16:55 | Bruce Dawson
(20 mins)U of Adelaide | EeV showers with Auger at 10^{18} eV |
| 17:20 | Chad Finley
(20 mins)U of Wisconsin - Madison | Recent results from the HiRes experiment |

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| 17:45 | Nickolas Solomey
(20 mins) Fermilab | Particle production measurements at Fermilab |
| 18:10 | Sergey Ostapchenko
(20 mins) Forschungszentrum Karlsruhe | Very high energy Cosmic Ray interactions: An overview |
| 18:35 | | Session ends |

WG 3 - TeV Particle

Monday 8/28 2:00 PM Room 2223

I Albuquerque / T Weiler, Presenters

Organized by I Albuquerque / A Kusenko

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|-------|--|--|
| 14:00 | Zackaria Chacko
(20 mins) University of Arizona | Direct detection of supersymmetric particles in neutrino telescopes |
| 14:23 | Marcus Ahlers
(20 mins) DESY Hamburg | Long-lived staus at neutrino telescopes |
| 14:46 | Ina Sarcevic
(20 mins) University of Arizona | UHE cosmic neutrinos and the physics beyond the Standard Model |
| 15:09 | Dan Hooper
(20 mins) Fermilab | Measuring SUSY parameters with astrophysics experiments |
| 15:34 | Gianfranco Bertone
(20 mins) INFN, Padova | Black Holes as Dark Matter annihilation "boosters" |
| 15:57 | John Beacom
(20 mins) Ohio State University | General upper bound on the Dark Matter total annihilation cross section |
| 16:20 | | <i>Coffee Break</i> |
| 16:40 | Stephen Reucroft
(20 mins) Northeastern University | A novel way to probe the Higgs Field |
| 17:03 | Luis Anchordoqui
(20 mins) Northeastern University | Spacetime foam at a TeV |
| 17:26 | Sergio Palomares Ruiz
(20 mins) Vanderbilt University | TeV gamma rays and neutrinos from nuclei photodissociation |
| 17:49 | Haim Goldberg
(20 mins) Northeastern University | TeV gamma rays and neutrinos from the HEGRA source in Cygnus via nuclei dissociation |
| 18:12 | Hallsie Reno
(15 mins) University of Iowa | Weak interactions and quasistable particle energy loss |
| 18:35 | | Session ends |

WG 4 - Neutrino Astronomy

Tuesday 8/29 2:30 PM Room 2241

Dan Hooper / Lutz Koepke, Presenters and Organizers

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|-------|--|--|
| 14:30 | Taka Kajino
(15 mins) NAO, University of Tokyo | UHE Neutrinos and nucleosynthesis in collapsar as evidence for GRB central engines |
| 14:50 | Shahid Hussain
(15 mins) Bartol Research Institute | Event rates vs. cross-sections at neutrino telescopes |
| 15:10 | Matthew Kistler
(15 mins) The Ohio State University | Guaranteed and prospective galactic TeV neutrino sources |
| 15:30 | Floyd Stecker
(15 mins) NASA / GSFC | Are diffuse neutrinos from starburst galaxies observable? |
| 15:50 | Julia Becker
(15 mins) Dortmund University | AMANDA flux results and interpretation |

16:10

- 16:30 Elisa Resconi
(15 mins) Max Planck Institute
16:50 Nicolas Busca
(15 mins) The University of Chicago
17:10 Dave Besson
(15 mins) U of Kansas
17:30 Doug Cowen
(10 mins) Penn State University
17:45 Tyce de Young
(15 mins) Penn State University
18:05 Teresa Montaruli (for Giorgio Riccobene)
(15 mins) LNS-INFN
18:25 Mieke Bouwhuis
(15 mins) NIKHEF
18:45 Alexander Kappes
(10 mins) U of Erlangen/Nuremburg
19:00

Coffee Break

- Neutrino transient point source search:
Use of the multiwavelength approach
Neutrinos from UHE nuclei

UHE neutrinos

Tau neutrino detection in IceCube

Novel tau signatures in neutrino
telescopes
Results from NEMO and Km3Net

Results from ANTARES

Potential neutrino signals from
galactic TeV gamma-ray sources

Session ends

WG 5 - Dark Matter

Tuesday 8/29 2:30 PM Room 2103

L Baudis / G Bertone, Presenters and Organizers

- 14:30 Louis Strigari
(20 mins) U California-Irvine

14:55 Shin'ichiro Ando
(20 mins) Calif Inst of Technology
15:20 Pierre Brun
(20 mins) LAPP Annecy IN2P3
15:45 Hasan Yuksel
(20 mins) The Ohio State University

- Meta-cold Dark Matter: Hierarchical
structure formation and Dark Matter
haloes that have cores

Cosmic gamma-ray background from
Dark Matter annihilation

The enhancement of the positron
signal from annihilations in IMBHs
Constraints on galactic positrons

16:10

- 16:30 Roberto Trotta
(20 mins) Oxford University
16:55 Juan I Collar
(20 mins) U of Chicago
17:20 Lilian Kaufmann
(20 mins) ETH Zurich
17:45

Coffee Break

- Neutralino Dark Matter detection:
Around the corner?

Status of COUPP, a bubble chamber
search for particle Dark Matter
The ArDM Project

Session ends

WG 6 - Gravitational Waves

Wednesday 8/30 2:30 PM Room 2241

B Allen / G Mueller, Presenters and Organizers

- 14:30 Ben Owen
(20 mins) Penn State University
14:55 Valery Frolov
(20 mins) CalTech
15:20 Patrick Brady
(20 mins) U Wisconsin - Milwaukee
15:45 Rana Adhikari
(20 mins) Cal Tech

- What can Gravitational Waves say
about neutron stars?
Status of LIGO

LIGO observational results

Advanced LIGO interferometers

16:10

Coffee Break

16:10

16:25 Nergis Mavalvala
(20 mins) MIT
16:55 Massimo Visco
(20 mins) IFSI-INAF & INFN
17:20 Louis Rubbo
(20 mins) Penn State University
17:45 Ke-Xun Sun
(20 mins) Stanford
19:10 Guido Mueller
(20 mins) University of Florida
19:35

Coffee Break

The path to subquantum interferometry
in gravitation
Present performance of resonant mass
detectors for Gravitational Waves
Facing the LISA data analysis
challenge
LISA-GRS system
LISA interferometry

Session ends

WG 7 - New Technologies

Wednesday 8/30 2:30 PM Room 2103

D. Saltzberg, Presenter

Organized by: D. Saltzberg and D. Waters

14:30 Ped Miodinovic
(15 mins) U of Hawaii at Manoa
14:50 David Goldstein
(15 mins) U Cal Irvine
15:10 Steve Barwick
(15 mins) U Cal Irvine

Status and future plans for
accelerator measurements of the
Askaryan effect
Energy resolution and calibration of
the ANITA detector
ARIANNA: A new concept to measure
the flux of extremely high energy
cosmogenic neutrinos

15:30

15:45 Fabrice Feinstein
(15 mins) LPTA Montpellier
16:05 Gary Vamer
(15 mins) U of Hawaii
16:25 Buford Price
(15 mins) U Cal Berkeley

Discussion Break

Concepts for the design of front-end
ASICs for use in astroparticle physics
experiments
AURA: A successor to RICE and prelude
to a 10-km scale neutrino detector
Propagation of acoustic waves due to
UHE cascades in salt domes,
glacial ice and ice shelves

16:45

17:00 Justin Vandenbroucke
(15 mins) U Cal Berkeley
17:20 Stephan Hundertmark
(15 mins) Stockholm University

Coffee Break

Toward hybrid optical / radio / acoustic
detection of neutrinos
The SPATS acoustic array at the
South Pole

17:40

17:55 Kay Graf
(15 mins) University of Erlangen
18:15
(45 mins)
19:00

Discussion Break

Acoustic detection of UHE neutrinos in
the Mediterranean Sea
Albrecht Karle
End of session

