

HE: Oral Sessions

HE: High Energy Phenomena

July 31

14:30–16:30 Main Convention Hall

HE 1.1

- 1 First Measurements with the ARGO-YBJ Detector
Antonio Surdo for the ARGO-YBJ Collaboration

 - 2 Angular Distribution of EAS at $N > 10^7$ Particles
Vladimir Ivanovich Yakovlev et al.

 - 3 Investigation of the Muon Pseudorapidities in EAS with the Muon Tracking Detector of the KASCADE Experiment
Janusz Zabierowski for the KASCADE Collaboration

 - 4 Muon Density Measurements as Probe of the Muon Component of Air-Shower Simulations
Andreas Haungs for the KASCADE-Grande Collaboration

 - 5 The Role of Measurements of Muon Arrival Time Distributions for the Mass Discrimination of High Energy EAS
Iliana Magdalena Brancus for the KASCADE-Grande Collaboration

 - 6 The Contradiction in the EAS Muon and Hadron Data beyond the CR Spectrum Break
Sergey Borisovich Shaulov

 - 7 EAS High Energy Muon Component around the Knee: Simultaneous Surface and Underground Measurements at Baksan
Valery Borisovich Petkov et al.

 - 8 A Halo Event Observed by Hybrid Experiment at Mt. Chacaltaya
Norio Kawasumi et al.

 - 9 Coplanar Production of Pions at Energies above 10 PeV According to Pamir Experiment Data
Alexander Sergeevich Borisov et al.

 - 10 Lateral Distribution Function of EAS Cherenkov Light: Experiment Quest and Corsika Simulation
Andrea Chiavassa for the EAS-TOP Collaboration
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August 1

9:10–10:34 Main Convention Hall

HE 1.1

- 11 How Well Do We Know EAS Size Spectra?
Gerd Schatz

 - 12 A Measurement of the Energy Spectrum of Unaccompanied Hadrons
Joerg Rudolf Hoerandel for the KASCADE Collaboration

 - 13 Primary Proton Spectrum in the Knee Region Observed by the Tibet Hybrid Experiment
Makio Shibata for the Tibet ASgamma Collaboration

 - 14 Proton Fraction in PCR Mass Composition at Energies of 10^{15} – 10^{17} eV (Experiment “Pamir”)
Serguei Anatolievich Slavatskiy et al.

 - 15 The Proton, Helium and CNO Fluxes at $E_0 \approx 100$ TeV from the EAS-TOP (Cherenkov) and MACRO (TeV Muon) Data at the Gran Sasso Laboratories
Mario E. Bertina for the EAS-TOP and MACRO Collaborations

 - 16 Energy Spectrum of Cosmic Rays in the Knee Region and Studies of Different Components of Extensive Air Showers
German V. Kulikov et al.
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- 17 Composition of Cosmic Rays from Coincidences between Air Showers and Muons in the Soudan2 Detector
Richard Gran, P. Border, and K. Ruddick
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14:30–16:30 Main Convention Hall

HE 1.1

- 18 Energy Spectrum and Elemental Composition in the PeV Region
Markus Roth and H. Ulrich
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- 19 The Energy Spectrum of All-Particle Cosmic Rays around the Knee Region Observed with the Tibet Air-Shower Array
Shunsuke Ozawa for the Tibet ASgamma Collaboration
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- 20 Study of Cosmic Ray Primaries between 10^{12} and 10^{16} eV from EAS-TOP
Gianni Navarra for the EAS-TOP Collaboration
-
- 21 The Cosmic Ray Primary Composition in the Knee Region through the EAS Electromagnetic and Muon Measurements at EAS-TOP
Gianni Navarra for the EAS-TOP Collaboration
-
- 22 A Study of Nuclear Composition of Primary Cosmic Rays above 100 TeV
Hideki Tanaka et al.
-
- 23 The Chemical Composition of the Primary Cosmic Rays around the Knee Region by Measuring Lateral Distributions of Air Cherenkov Photons
Hisao Tokuno for the BASJE Collaboration
-
- 24 A Study of the Primary Composition at $\sim 10^{14}$ – 10^{15} eV with the GRAPES-2 Array at Ooty
Suresh Chandra Tonwar et al.
-
- 25 Measurement of the Cosmic Ray Composition at the Knee with the SPASE-2/AMANDA-B10 Detectors
Katherine Rawlins for the SPASE and AMANDA Collaborations
-
- 26 Cosmic Ray Anisotropy with KASCADE
Gernot Maier for the KASCADE Collaboration
-
- 27 Measurement of Energy and Arrival Direction of Air Showers by Synchronized Compact Arrays
Nobuaki Ochi for the LAAS Group
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17:30–19:30 Main Convention Hall

HE 1.1

- 28 The Meteorological Effects of Cosmic Ray Intensity at Sea Level Observed at Multiple EAS Arrays in LAAS Experiments
Atsushi Iyono for the LAAS Group
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HE 1.2

- 1 Primary Cosmic-Ray Spectra in the Knee Region
Samvel V. Ter-Antonyan and P. L. Biermann
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- 2 The Knee in the Energy Spectrum of Cosmic Rays in the Framework of the Poly-Gonato and Diffusion Models
Joerg Rudolf Hoerandel, N. N. Kalmykov, and A. I. Pavlov
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- 3 The Cosmic-Ray Knee: Still a Mystery
Frank Culver Jones, R. Streitmatter, and D. Kazanas
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- 4 New Approach to Cosmic Ray Phenomena Generated by VHE Particles above the Knee
Anatoly Afanasievich Petrukhin
-
- 5 Influence of Low-Energy Hadronic Interaction Programs on Air Shower Simulations with *CORSIKA*
Ralph Engel et al.
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6 Characteristics of Ultra-Heavy Cosmic Ray Nuclei in the PeV-EeV Energy Region
David B. Kieda

7 Radio Emission from EAS - Coherent Geosynchrotron Radiation
Tim Huege and H. Falcke

8 Advective Diffusion Propagation Model for Galactic Cosmic Rays above 10^{12} eV
Shoichi Ogio and F. Kakimoto

9 The Residence Time of Cosmic Rays in the Galactic Disk at Energies around the Knee
Antonio Codino and F. Plouin

August 2

9:10–10:34 Main Convention Hall (1/2 parallels)

HE 1.3

1 The Lateral Distribution Function of Shower Signals in the Surface Detector of the Pierre Auger Observatory
Markus Roth for the Pierre Auger Collaboration

2 Shower Studies at around 10^{18} eV with the Surface Detector of the Pierre Auger Observatory
Piera Luisa Ghia for the Pierre Auger Collaboration

3 The Angular Reconstruction and Angular Resolution of Air Showers Detected at the Auger Observatory
Paolo Privitera for the Pierre Auger Collaboration

4 A Study of Very Inclined Showers in the Pierre Auger Observatory
Maximo David Ave Pernas for the Pierre Auger Collaboration

5 Asymmetries Observed in Giant Air Showers Using Water Cherenkov Detectors
Maria Teresa Dova for the Pierre Auger Collaboration

6 A Critique of the Energy Estimates Made of Ultra High Energy Cosmic Rays Detected by the Yakutsk Array
Alan Andrew Watson

7 Energy Determination in the Akeno Giant Air Shower Array Experiment
Masahiro Takeda for the AGASA Collaboration

9:10–10:34 Conference Room 202 (2/2 parallels)

HE 2.1

1 Measurements of the Lateral Distribution of the Muon Component of Extensive Air Showers Underground
Arif Alesker Mailov et al.

2 Electron and Muon Densities from Cosmic Ray Showers in the Energy Range of 0.1 to 10 PeV, Measured at L_3+C
Qingqi Zhu on behalf of the L3 Collaboration

3 The Evidence for the Variation of the Mass Composition with Energy in the Region of the Knee by the LVD Experiment
Leonid G. Dedenko for the LVD Collaboration

4 Cosmic Muon Events Coincident in Two LEP Detectors
Xinhua Ma on behalf of the L3 and CosmoALEPH Collaborations

5 Investigation of Muon Bundles in Horizontal Cosmic Ray Flux
Igor Ivanovich Yashin et al.

6 Atmospheric Muon Measurements at Sea Level IV: Muon Charge Ratio
Shuhe Tsuji et al.

7 Geomagnetic Cutoff Effect on Atmospheric Muon Spectra at Ground Level
Keisuke Tanizaki for the BESS Collaboration

11:05–12:29 Main Convention Hall (1/2 parallels)

HE 1.3

- 8 Analysis of the Energy Estimation Algorithm of UHECRs Detected with the Yakutsk Array
Anatoly A. Ivanov, S. P. Knurenko, and Yu. G. Shafer

 - 9 Energy Spectrum of Primary Cosmic Rays in the Energy Region of 10^{17} – 10^{20} eV by Yakutsk Array Data
Mikhail I. Pravdin et al.

 - 10 Measurement of the Flux of UHE Cosmic Rays by the HiRes Detectors Observing in Monocular Mode
Douglas R. Bergman for the HiRes Collaboration

 - 11 Chemical Composition of Ultra-High Energy Cosmic Rays Observed by AGASA
Masahiro Teshima et al.

 - 12 UHECR Composition Studies with HiRes Stereo Data
Pierre V. Sokolsky for the HiRes Collaboration

 - 13 Stereo Spectrum of UHECR Showers at the HiRes Detector
Robert Wayne Springer for the HiRes Collaboration

 - 14 Anisotropy Studies of Ultra-High Energy Cosmic Rays Using Monocular Data Collected by the High-Resolution Fly's Eye (HiRes)
John W. Belz for the HiRes Collaboration
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11:05–12:17 Conference Room 202 (2/2 parallels)

HE 2.1

- 8 Measurements of the Absolute Flux of Atmospheric Muons with BESS
Yasuchika Yamamoto for the BESS Collaboration

 - 9 Atmospheric Muon Measurements at Sea Level III: Muon Flux
Masahiro Tokiwa et al.

 - 10 Measurement of the Atmospheric Muon Spectrum from 20 to 2000 GeV
Michael Unger on behalf of the L3 Collaboration

 - 11 The Cosmic Ray Muon Spectrum and Charge Ratio in CosmoALEPH
Dirk Zimmermann et al.

 - 12 Energy Spectra and Charge Ratios of Atmospheric Muons
Stephen Anthony Minnick et al.

 - 13 Cosmic Ray Flux Measurement with AMANDA-II
Dmitry A. Chirkin for the AMANDA Collaboration
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14:30–16:30 Main Convention Hall

HE 1.3

- 15 Note on the Arrival Directions of the Highest Energy Cosmic Rays
Roger William Clay

 - 16 Small-Scale Anisotropy Studies of the Highest Energy Cosmic Rays Observed in Stereo by HiRes
Chad B. Finley for the HiRes Collaboration

 - 17 The Arrival Direction Distribution of Extremely High Energy Cosmic Rays Observed by AGASA
Masahiro Teshima for the AGASA Collaboration

 - 18 Pulsars Are Possible Sources of Cosmic Rays at $E \geq 4 \times 10^{19}$ eV
Aleksei Alekseevich Mikhailov

 - 19 Hybrid Performance of the Pierre Auger Observatory and Reconstruction of Hybrid Events
Brian Edwin Fick for the Pierre Auger Collaboration

 - 20 Calibration of the Pierre Auger Fluorescence Detector
Michael D. Roberts for the Pierre Auger Collaboration
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21 Atmospheric Monitoring for the Pierre Auger Fluorescence Detector
Miguel Alejandro Mostafa for the Pierre Auger Collaboration

22 Probing the HiRes Aperture near 10^{20} eV with a Distant Laser
Lawrence R. Wiencke for the HiRes Collaboration

23 Absolute Energy Scale of the HiRes Detector
Eric J. Mannel for the HiRes Collaboration

24 CHICOS: Status and Prospects
Robert D. McKeown et al.

17:30–18:54 Main Convention Hall (1/2 parallels)

HE 1.5

1 The Detector Control System for the ARGO-YBJ Experiment
Paolo Camarri for the ARGO-YBJ Collaboration

2 ARGO-YBJ Computing Model. Data Analysis and Hardware/Software Architecture of the Processing Farm
Paola Celio for the ARGO-YBJ Collaboration

3 Wide Area Small Air Shower Detection System Linked by Internet
Yoshiki Teramoto et al.

4 Multiplicity Spectrum of NM64 Neutron Supermonitor and Hadron Energy Spectrum at Mountain Level
Alexander P. Chubenko et al.

5 The Surface Detector Trigger for the Auger Observatory
Zbigniew Szadkowski for the Pierre Auger Collaboration

6 Calibration and Monitoring of the Pierre Auger Surface Detectors
Xavier Bertou for the Pierre Auger Collaboration

7 New Photon Yields Measurement in Air and Its Effect on the Energy Estimation of Ultra-High Energy Cosmic Rays
Naoto Sakaki et al.

17:30–19:06 Conference Room 202 (2/2 parallels)

HE 2.2

1 First Results from KamLAND
Tadao Mitsui for the KamLAND Collaboration

2 Recent Results of Solar Neutrino Measurement in Super-Kamiokande
Yusuke Koshio for the Super-Kamiokande Collaboration

3 Search for $\bar{\nu}_e$ from the Sun at Super-Kamiokande-I
Yoshihito Gando for the Super-Kamiokande Collaboration

4 Solar Neutrino Results from the Sudbury Neutrino Observatory
Thomas Kutter for the Sudbury Neutrino Observatory Collaboration

5 A Study of Short-Time Periodic Variation of the ^8B Solar Neutrino Flux at Super-Kamiokande
Jonghee Yoo for the Super-Kamiokande Collaboration

6 A Possible Correlative Time Variation in the Production Rates of the Neutrinos from the p-p Reactions and the Boron-8 Decay Processes in the Solar Core
Kunitomo Sakurai

7 Analysis of the Events Recorded by the LVD Neutrino Detector from Large Solar Flares during High Solar Activity
Oscar Saavedra for the LVD Collaboration

8 Atmospheric Neutrino Oscillations in SK-I
Alec T. Habig for the Super-Kamiokande Collaboration

August 3

9:10–10:34 Main Convention Hall (1/2 parallels)

HE 1.5

- 8 An Experiment to Measure the Air Fluorescence Yield in Electromagnetic Showers
Petra H. Huentemeyer for the FLASH Collaboration

- 9 Atmospheric Effects on the Development and the Fluorescence Detection of Extensive Air Showers
Markus Risse et al.

- 10 Statistical Calibration and Background Measurements of the Auger Fluorescence Detector
Hartmut E. H. Gemmeke, M. Kleifges, and A. Menshikov

- 11 The Absolute Calibration of the HiRes Detectors
John N. Matthews for the HiRes Collaboration

- 12 The Focal Surface of EUSO Telescope
Hirohiko M. Shimizu for the EUSO Collaboration

- 13 The Euso Electronics
Marco Pallavicini et al.

- 14 ASHRA Trigger and Readout Pixel Sensors
Makoto Sasaki et al.

9:10–10:34 Conference Room 202 (2/2 parallels)

HE 2.2

- 9 Study of Atmospheric Neutrino Oscillations Using π^0 Events in SK-I
Shoei Nakayama for the Super-Kamiokande Collaboration

- 10 Characterizing the Atmospheric Neutrino Flux
Shigetaka Moriyama for the Super-Kamiokande Collaboration

- 11 Search for Charged Current Tau Neutrino Appearance in Super-Kamiokande
Choji Saji for the Super-Kamiokande Collaboration

- 12 The Analysis of Fully Contained Events and Partially Contained Event in the Virtual Super-Kamiokande and Neutrino Oscillation Problems
Akeo Misaki et al.

HE 2.3

- 1 A Search for Astronomical Neutrino Sources with the Super-Kamiokande Detector
Kristine Washburn for the Super-Kamiokande Collaboration

- 2 Supernova Relic Neutrino Search Results from Super-Kamiokande
Matthew S. Malek for the Super-Kamiokande Collaboration

- 3 Search for Neutrino Bursts from Supernova Explosions at Super-Kamiokande
Toshio Namba for the Super-Kamiokande Collaboration

14:30–16:30 Main Convention Hall (1/2 parallels)

HE 1.5

- 15 LOPES – Detecting Radio Emission from Cosmic Ray Air Showers
Andreas Horneffer et al.

- 16 KASCADE-Grande: The Grande Array
Andrea Chiavassa for the KASCADE-Grande Collaboration

- 17 A Proportional Wire Chamber Array: GRAND's Status
Christopher P. D'Andrea et al.

- 18 Performance of the Extensive Air Shower Array at the University of Puebla
Humberto A. Salazar et al.

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- 19 The Telescope Array Experiment: An Overview and Physics Aims
Masaki Fukushima et al.
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- 20 The Telescope Array Experiment: Hybrid Measurement of Ultra High Energy Cosmic Rays in Northern Hemisphere
Fumio Kakimoto et al.
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- 21 The Telescope Array Experiment: The Search for the Clusters in the Northern Hemisphere Sky with a Large Scintillator Array
Saburo Kawakami et al.
-
- 22 GRaNDScan - An Experiment to Study Cosmic Ray Flux and Anisotropy around and below EeV
Stefan Westerhoff et al.
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- 23 The ASHRA Detector
Yoichi Asaoka et al.
-
- 24 EUSO (the Extreme Universe Space Observatory) — Scientific Objectives —
Masahiro Teshima for the EUSO Collaboration
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14:30–16:30 Conference Room 202 (2/2 parallels)

HE 2.3

- 4 Search for High Energy Neutrinos of All Flavors with AMANDA II
Marek P. Kowalski for the AMANDA Collaboration
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- 5 Search for Extraterrestrial Point Sources of Neutrinos with AMANDA-II
Albrecht Karle for the AMANDA Collaboration
-
- 6 Atmospheric Neutrino and Muon Spectra Measured with the AMANDA-II Detector
Heiko Geenen for the AMANDA Collaboration
-
- 7 Point Source Searches with the ANTARES Neutrino Telescope
Aart Heijboer for the ANTARES Collaboration
-
- 8 Muon Energy Reconstruction in ANTARES and Its Application to the Diffuse Neutrino Flux
Alain Romeyer, J. de D. Zornoza, and R. Bruijn
-
- 9 10 Years Search for Neutrino Bursts with LVD
Walter Fulgione for the LVD Collaboration
-
- 10 Updated Limits on the Ultra-High-Energy Neutrino Flux from the RICE Experiment at the South Pole
Surujhdeo Seunarine et al.
-
- 11 Results from the BAIKAL Neutrino Telescope
Marek P. Kowalski for the Baikal Collaboration
-
- 12 The IceCube High Energy Neutrino Telescope
Shigeru Yoshida for the IceCube Collaboration
-
- 13 Ultra High Energy ν_τ Detection Using Air Shower Fluorescence/Cerenkov Light Detector
Zhen Cao et al.
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17:30–18:54 Main Convention Hall (1/2 parallels)

HE 1.5

- 25 The Extreme Universe Space Observatory (EUSO) Mission in the Context of ESA
Jean Clavel et al.
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- 26 The EUSO Instrument Onboard the International Space Station
Oswaldo Catalano on behalf of the EUSO Collaboration
-
- 27 EUSO Operations: Flight and Ground
Maria Catarina Espirito Santo for the EUSO Collaboration
-
- 28 EUSO in the Context of ESA Human Spaceflight Directorate
Andrea Santangelo et al.
-

29 The Scientific Baseline to Have an Atmosphere Sounding System Coupled to the *EUSO* Detector
Giacomo D'Ali Staiti for the EUSO Collaboration

30 Tracking Mirror for Measurement of Extreme Energy Cosmic Rays from Space
H. Park, G. K. Garipov, and B. A. Krenov

31 IceTop: The Surface Component of IceCube
Thomas K. Gaisser for the IceCube Collaboration

17:30–18:54 Conference Room 202 (2/2 parallels)

HE 2.4

1 3-Dimensional Simulation of Atmospheric Muon and Neutrino Flux
Laurent Derome, Yong Liu, and M. Buenerd

2 A Precise Three-Dimensional Calculation of the Atmospheric Neutrino Flux
Morihiro Honda et al.

3 High Energy Tau Neutrinos: Production, Propagation and Prospects of Observations
Husain Athar, J.-J. Tseng, and G.-L. Lin

4 Theoretical Predictions of Ultra-High Energy Neutrino Fluxes
Dmitry V. Semikoz

5 Resonant Spin-Flavor Conversion of Supernova Neutrinos
Shin'ichiro Ando and K. Sato

6 Calculation of Muon Fluxes at the Small Atmospheric Depths
Koh Abe et al.

7 Expected Angular Distribution of Atmospheric Muons at Super-Kamiokande Detector
Choji Saji et al.

August 5

9:10–10:34 Main Convention Hall (1/2 parallels)

HE 1.4

1 A Fast Hybrid Approach to Air Shower Simulations and Applications
Hans-Joachim Drescher et al.

2 Systematic Uncertainties in High-Energy Hadronic Interaction Models
Johannes Knapp, Serguei Ostapchenko, and M. Zha

3 Ultrahigh Energy Gamma Ray Cascading in the Geomagnetic Field and Its Development in the Atmosphere
Hristofor Petrov Vankov et al.

4 Time Distributions of Electromagnetic and Hadronic Components in Giant EAS
Fabrice Cohen et al.

5 Analytical Time Structure of Muonic Showers
Ricardo Vazquez et al.

6 Testing the HiRes Detector Simulation Against UHECR Data
Andreas Zech for the HiRes Collaboration

7 Features of Inclined Air Showers Induced by EHE Gamma Rays
Naoya Inoue et al.

9:10–10:22 Conference Room 202 (2/2 parallels)

HE 2.4

8 Atmospheric Proton and Helium Fluxes Compared to AIREs Simulation Results
Per Carlson et al.

9 Comparison between CAPRICE98 Atmospheric Muon Data and Simulations with TARGET
Todor S. Stanev et al.

10 The Three-Dimensional Propagation of High Energy Muon through Water
Nobusuke Takahashi et al.

11 Mechanism of Molière Expansion for the Angular Distribution and Improved Molière Functions Evaluated from the Single-Scattering Splitting Model
Takao Nakatsuka and Kazuhide Okei

HE 2.5

1 Toward the ANTARES Neutrino Telescope: Results from a Prototype Line
Marco Circella for the ANTARES Collaboration

2 Status of the ICARUS Project
Paola R. Sala on behalf of the ICARUS Collaboration

14:30–16:30 Main Convention Hall

HE 1.4

8 The Electromagnetic Component of Inclined Showers
Gonzalo Parente, J. Alvarez-Muniz, and E. Zas

9 Neural Networks as a Statistic Diagnostic Tool for Mass Composition at the Highest Energies
Gustavo Medina Tanco, S. J. Sciutto, and A. Tiba

10 Detection of Upward Air Showers with the EUSO Experiments
Yoshiyuki Takahashi for the EUSO Collaboration

11 Monte Carlo Simulation of Neutrino Induced Extended Air Showers
Ofelia Pisanti et al.

12 A Monte Carlo to Produce Fluorescence Photons
Henrique Melo Jorge Barbosa, Vitor de Souza, and Carola Dobrigkeit

13 Simulation Studies on Air Fluorescence and Cerenkov Lights from UHE Air Showers for EUSO Experiment
Naoya Inoue for the EUSO Collaboration

14 Implications of the Angular Spread of Air Shower Particles for the Fluorescence Technique
Jaime Alvarez-Muniz et al.

15 Limitations on Space-Based Air Fluorescence Detector Apertures Obtained from IR Cloud Measurements
John F. Krizmanic, Pierre Sokolsky, and Robert Streitmatter

16 Should One Really Expect a GZK Cutoff?
Etienne Parizot, O. Deligny, and A. Letessier-Selvon

17 Is the HiRes Energy Spectrum Really Consistent with GZK Cutoff?
Dmitry Semikoz and M. A. Tortola

August 6

9:10–10:34 Main Convention Hall (1/2 parallels)

HE 1.4

18 The GZK Feature in the Spectrum of UHECRs: What Is It Telling Us?
Daniel De Marco, Pasquale Blasi, and Angela V. Olinto

19 Anisotropy of Cosmic Rays at 10^{18} eV from Single Galactic Sources
Maria Giller, W. Bednarek, and M. Zielinska

20 Full-Sky Search for Ultra High Energy Cosmic Ray Anisotropies
John David Swain et al.

21 Correlations and Charge Composition of UHECR without Knowledge of Galactic Magnetic Field
Igor I. Tkachev and P. Tinyakov

22 Fits of the HiRes Spectrum to Astrophysical Models
Douglas R. Bergman et al.

23 High Energy CRs from Young Neutron Star and Their Interactions with the Ambient Matter
Shigehiro Nagataki

24 Propagation of Ultra-High Energy Nucleus in the Intergalactic Photon Field
Tokonatsu Yamamoto et al.

9:10–10:34 Conference Room 202 (2/2 parallels)

HE 3.1

1 Hadroproduction in Proton Carbon Collisions at the NA49 Experiment
Giles Barr for the NA49 Collaboration (carbon run)

2 A Measurement Technique of p -Air Inelastic Cross-Section above 10^{18} eV
Konstantin V. Belov for the HiRes Collaboration

3 Air Shower Fluctuations and the Measurement of the Proton-Air Cross Section
Jaime Alvarez-Muniz et al.

4 Comments on Centauro Events
Akinori Ohsawa for the Chacaltaya Emulsion Chamber Collaboration

5 Centauro I: Finding the Answer
Vladimir V. Kopenkin and Y. Fujimoto

6 Observation of Penetrating Shower-Clusters in Chacaltaya Two-Storey Emulsion Chambers
Masanobu Tamada

7 TARGET 2.2 – A Hadronic Interaction Model for Studying Inclusive Muon and Neutrino Fluxes
Ralph Engel et al.

14:00–16:00 Main Convention Hall

HE 3.1

8 Extrapolation of Interaction Models above LHC Energies and Fast Simulation Procedures for Giant EAS
Jean-Noel Capdevielle, F. Cohen, and K. Sanosyan

9 Composition of Cosmic Ray Particles in the Atmosphere as Measured by the CAPRICE98 Balloon Borne Apparatus
Emiliano Mocchiutti for the WiZard/CAPRICE Collaboration

HE 3.2

1 Updated Results on Nucleon Decay Searches in Super-Kamiokande-I
Masato Shiozawa for the Super-Kamiokande Collaboration

HE 3.4

1 Astroparticle Physics with AMS-02
Giovanni Lamanna for the AMS-02 Collaboration

2 The AMS-02 Tracker Performance
Eduardo Cortina-Gil et al.

3 Search for Supersymmetric Dark Matter with GLAST
Aldo Morselli et al.

4 Dark Matter Searches with the ANTARES Neutrino Telescope
Lee F. Thompson on behalf of the ANTARES Collaboration

5 Particle Physics in ASHRA
Kazunori Kohri et al.

HE 3.3

- 1 Limits on Antiprotons in Space from the Shadowing of Cosmic Rays by the Moon
Yupeng Xu on behalf of the L3 Collaboration
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- 2 An Upper Limit on Cosmic-Ray \bar{p}/p Flux Ratio Estimated by the Moon's Shadow with the Tibet-III Air Shower Array
Tadashi Kido for the Tibet ASgamma Collaboration
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17:00–17:48 Main Convention Hall (1/2 parallels)

HE 1.4

- 25 UHECR Anisotropy from Luminous Infrared Galaxies - Predictions for the Pierre Auger Observatory
Andrzej Smialkowski, M. Giller, and W. Michalak
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- 26 Constrained Simulations of the Magnetic Field in the Local Supercluster and the Propagation of UHECR
Dario Grasso et al.
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- 27 Distortion of UHECR Spectra by Regular Magnetic Fields
Todor S. Stanev, David Seckel, and Ralph Engel
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- 28 Constrains on the Galactic Magnetic Field from the Two-Dimensional Correlation Function of AGASA Events
Gustavo A. Medina Tanco, M. Teshima, and M. Takeda
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17:00–18:36 Conference Room 202 (2/2 parallels)

HE 3.3

- 3 Search for Relic Neutralinos with Milagro
Gaurang B. Yodh for the Milagro Collaboration
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- 4 Measuring Cosmological Parameters with MAGIC
Oscar Blanch for the MAGIC Collaboration
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- 5 Study of Upward Showering Muons in Super-Kamiokande
Shantanu A. Desai for the Super-Kamiokande Collaboration
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- 6 Search for Muons from WIMP Annihilation in the Center of the Earth with the AMANDA-B10 Detector
Philip Olbrechts for the AMANDA Collaboration
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- 7 Search for TeV Gamma-Rays from the Andromeda Galaxy and for Supersymmetric Dark Matter in the Core of M31
Werner Hofmann for the HEGRA Collaboration
-

- 8 Z-Bursts with Hot Dark Matter (Relic Neutrinos) Generating the EUV and Soft X-Ray Glow in Cluster of Galaxies
Yoshiyuki Takahashi et al.
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- 9 Dark Matter Experiments at Boulby Mine
Michael J. Carson
-

- 10 Search for Supersymmetric Dark Matter in M31 with CELESTE
Eric Nuss for the CELESTE Collaboration
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HE: POSTER Session 1

Authors in attendance: July 31, August 1, August 2 16:30–17:30

Multi-Purpose Hall

HE 1.1

- 1-P-001 Comparison of Some Parameters of EAS Initiated by Light and Heavy Nuclei in the Region of Energy Spectrum Break
Vladimir Ivanovich Yakovlev et al.
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