

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
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- 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
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- 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
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- 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
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- 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.
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- 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.
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- 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

- 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

- 26 Constrained Simulations of the Magnetic Field in the Local Supercluster and the Propagation of UHECR
Dario Grasso et al.

- 27 Distortion of UHECR Spectra by Regular Magnetic Fields
Todor S. Stanev, David Seckel, and Ralph Engel

- 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

- 4 Measuring Cosmological Parameters with MAGIC
Oscar Blanch for the MAGIC Collaboration

- 5 Study of Upward Showering Muons in Super-Kamiokande
Shantanu A. Desai for the Super-Kamiokande Collaboration

- 6 Search for Muons from WIMP Annihilation in the Center of the Earth with the AMANDA-B10 Detector
Philip Olbrechts for the AMANDA Collaboration

- 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.

- 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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- 1-P-002 Analysis of Air Showers at the Trigger Threshold of KASCADE
Andreas Haungs for the KASCADE Collaboration
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- 1-P-003 Analysis of Energy Distributions of Hadrons Registered in the Pamir Experiment
Jan Malinowski et al.
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- 1-P-004 Test of a Hadronic Interaction Model by a Multidimensional Analysis of Lateral and Longitudinal Air-Shower Observables at KASCADE
Markus Roth and A. F. Badea
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- 1-P-005 Muon Production Height from the Muon Tracking Detector in KASCADE
Janusz Zabierowski for the KASCADE Collaboration
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- 1-P-006 Registration of Particles Delayed by 400 – 1000 Microsec after EAS
Jacek Szabelski et al.
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- 1-P-007 EAS Muon Distributions and Primary Mass Composition from the GAMMA Installation
Lawrence W. Jones et al.
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- 1-P-008 A Search for Very High Energy Muons ($E_\mu > 100$ TeV) in EAS around the Knee
Valery Borisovich Petkov et al.
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- 1-P-009 Anomalously Delayed Particles in Extensive Air Shower Core According to Results of the New Plant
Turlan Khamzinovich Sadykov et al.
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- 1-P-010 The Modern Status of Anomalous Delayed Particles Effect in the “Knee” Region EAS According to the Data of Tien Shan Mountain Station
Alexander P. Chubenko et al.
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- 1-P-011 Observation of EAS Core with the Small Scintillation Detector at Taro
Hiroshi Sakuyama et al.
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- 1-P-012 Comparison of Experimental Events with an Galo with Calculations on Model “Tien-Shan”
Turlan Khamzinovich Sadykov et al.
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- 1-P-013 Use of Neural Networks to Measure the Muon Contents of EAS Signals in a Water Cherenkov Detector
Luis Villasenor, Y. Jeronimo, and H. Salazar
-
- 1-P-014 Single Unaccompanied Hadrons in Milagro and Surviving Primary Cosmic Ray Protons
Gaurang B. Yodh for the Milagro Collaboration
-
- 1-P-015 Primary Cosmic Ray Mass Composition Studies and Muon Size Spectra of Extensive Air Showers
German V. Kulikov et al.
-
- 1-P-016 The Energy Spectrum and the Chemical Composition of Primary Cosmic Rays with Energies from 10^{14} to 10^{16} eV
Shoichi Ogio for the BASJE Collaboration
-
- 1-P-017 Mass Composition of Primary Cosmic Ray below the “Knee” Deduced from Analysis of Energy Distribution of Hadrons Registered in the Pamir Experiment
Jan Malinowski
-
- 1-P-018 Mass Composition and Energy Spectrum Studies of Primary Cosmic Rays in Energy Range 10TeV-10PeV Using Atmospheric Cerenkov Light Telescope
Alexander L. Mishev, S. C. Mavrodiev, and J. N. Stamenov
-
- 1-P-019 A New Measurement on the Energy Spectrum of Primary Cosmic Rays in the Energy Region 10^{14} – 10^{16} eV, with GRAPES-3 Experiment
Sunil K. Gupta et al.
-
- 1-P-020 The Enhancement of Cosmic Rays with Energies above 10 TeV Observed at Mt. Chacaltaya
Osman H. Burgoa for the BASJE Collaboration
-
- 1-P-021 The Cosmic Ray Anisotropy between 10^{14} and 10^{15} eV
Piera Luisa Ghia for the EAS-TOP Collaboration
-
- 1-P-022 Search for Large-Scale Coincidences of EAS in LAAS Experiment
Nobuaki Ochi for the LAAS Group
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- 1-P-023 Search for Non-Random Features in Arrival Time Series of Air Showers Observed at Mt.Chacaltaya
Nobuaki Ochi et al.
-
- 1-P-024 Simulation Study on the Performance of Synchronized Compact Arrays within 1 Km Baseline
Atsushi Iyono for the LAAS Group
-
- 1-P-025 Arrival Time Distribution by the New Observation System at Taro
Hiroshi Sakuyama et al.
-
- 1-P-026 Analysis of the Arrival Time of Serial Air Showers by Using Erlang Distribution and Poisson Distribution
Hiroyuki Takada, N. Takahashi, and S. Kawaguchi
-
- 1-P-027 Search for Sporadic Enhancements of UHECR and Correlations with Cosmic Phenomena in LAAS Experiment
Isao Yamamoto for the LAAS Group
-
- 1-P-028 Radar Echo Detection System of EAS Ionization Columns as Part of a LAAS Detector Array
Isao Yamamoto for the LAAS Group
-
- 1-P-029 The Array of Atmospheric Cherenkov Telescopes at Milagro to Study Cosmic Ray Composition
Gaurang B. Yodh et al.
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- 1-P-030 First Results Obtained with Wide-Angle Cerenkov Light Telescope - BEO - p. Mussala
Elisaveta Slavcheva Malamova et al.
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- 1-P-031 A New Possibility to Determine the Mass Composition around the Knee with EAS Observed in Altitude
(700 g.cm⁻²)
Lawrence W. Jones et al.
-
- 1-P-032 About EAS Inverse Problem
Samvel V. Ter-Antonyan
-
- 1-P-033 Some Characteristics of Extensive Air Showers at Chacaltaya Observation Level
Alexander L. Mishev and J. N. Stamenov
-
- 1-P-034 A Selection of Different Cosmic Ray Primaries Using a New Selection Parameter Based on Cerenkov Light Registration
Alexander L. Mishev and J. N. Stamenov
-
- 1-P-035 The Primary Cosmic Ray All Nucleon Spectrum as Seen by ARGO-YBJ
Eleonora De Marinis for the ARGO-YBJ Collaboration
-
- 1-P-036 A Method to Reconstruct the Energy and Mass of Individual Primary Cosmic Ray Particles
Igor Alexandrovich Lebedev and E. G. Boos
-
- 1-P-037 Sensitivity of the ARGO-YBJ Strip Size Spectrum to Different Models of the Primary Cosmic Ray Composition in the Energy Range 10 ÷ 500 TeV
Giuseppe DiSciascio for the ARGO-YBJ Collaboration
-
- 1-P-038 On the “Knee” in Primary Cosmic Ray Spectrum
Yuri V. Stenkin
-
- 1-P-039 On Scaling of Inclusive Spectra of Charged Particles in Ultra-Relativistic Heavy Ion Collisions
Arunava Bhadra
-
- 1-P-040 Explanation of the Knee in the Galactic Cosmic-Ray Spectrum
Volodymyr Kryvdyk
-
- 1-P-041 The Bell-Lucek Mechanism in SNRs and the “Knee” in the Cosmic Ray Spectrum
Luke O’C. Drury, E. van der Swaluw, and O. Carroll
-
- 1-P-042 On the Pulsar Origin of the Knee
Arunava Bhadra
-
- 1-P-043 The Knee in Galactic Cosmic Ray Spectrum and Variety in Supernovae
Lyubov G. Sveshnikova
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1-P-044 Particle Acceleration Due to Electrostatic Shock Wave Driven by Counterstreaming Pair Plasmas
Shinji Saito, J. I. Sakai, and T. Haruki

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1-P-045 On Some Aspects of Age Parameter Associated with Extensive Air Showers Having Energy Ranging from $\sim 10^{14}$ eV to $\sim 10^{20}$ eV
Julie Saikia and Pranayee Datta

1-P-046 A Portion of Energy Transferred to the EAS Electron — Photon Component at $E_0 > 10^{15}$ eV
Stanislav P. Knurenko et al.

1-P-047 A Wavelet-Based Approach to UHECR Arrival Direction Analysis
Anatoly A. Ivanov et al.

1-P-048 Gradient in the Distribution of Particles around Pulsars
Aleksei Alekseevich Mikhailov et al.

1-P-049 Time Structure of the Shower Front as Measured at Haverah Park above 10^{19} eV
Maximo David Ave Pernas et al.

1-P-050 Distribution Functions of Muons in Inclined Showers Registered by Auger Observatory
Alexei V. Dorofeev, J. C. Diaz, and D. Nitz

1-P-051 The Arrival Time Distribution far from the Core of Air Showers above 10^{18} eV Measured in AGASA
Ken Honda et al.

1-P-052 An Estimate of the Primary Mass of Cosmic Rays at 10^{18} eV as Inferred from Volcano Ranch Data
Alan Andrew Watson et al.

1-P-053 Estimation of Primary Cosmic Ray Energy Registered at the EAS Yakutsk Array
Mikhail I. Pravdin et al.

1-P-054 Measurement of the Flux of UHE Cosmic Rays by the HiRes Detectors Observing in Both Monocular and Stereoscopic Modes
Robert Wayne Springer for the HiRes Collaboration

1-P-055 Cosmic Ray Anisotropy at the Energy $\sim 10^{19}$ eV
Aleksei Alekseevich Mikhailov, G. V. Nikolayeva, and Yu. G. Shafer

1-P-056 The Anisotropy Search Program for the Pierre Auger Observatory
Roger William Clay for the Pierre Auger Collaboration

1-P-057 Status, Performance and Perspectives of the Pierre Auger Observatory
Johannes Bluemer for the Pierre Auger Collaboration

1-P-058 Performance of the Pierre Auger Fluorescence Detector and Analysis of Well Reconstructed Events
Stefano Argiro for the Pierre Auger Collaboration

1-P-059 Pierre Auger Atmosphere-Monitoring Lidar System
Darko Veberic et al.

1-P-060 Signal Fluctuations in the Auger Surface Detector
Tokonatsu Yamamoto for the Pierre Auger Collaboration

1-P-061 Processing of the Signals from the Surface Detectors of the Pierre Auger Observatory
Tiina Suomijarvi for the Pierre Auger Collaboration

1-P-062 “Shoot the Shower”: Probing Atmospheric Clarity of the Shower/Detector Plane at HiRes
Lawrence R. Wiencke for the HiRes Collaboration

1-P-063 Atmospheric at HiRes
Lawrence R. Wiencke for the HiRes Collaboration

1-P-064 UHECR Study on Satellites in TUS/KLYPVE Experiments
Leonid G. Tkatchev et al.

1-P-065 Cosmic-Ray-Air Shower Timing Experiment: Performance of a Mini Array Detector
Tulshi Bezboruah

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- 1-P-241 Measurement of Cosmic-Ray Proton, Antiproton and Muon Spectra at Mountain Altitude
Tomoyuki Sanuki et al.
-
- 1-P-242 The Study of Elemental Species or the Primary Cosmic Rays at Energies 10^{13} – 10^{16} eV by the LVD Experiment
Leonid G. Dedenko for the LVD Collaboration
-
- 1-P-243 Muon Groups Underground and Primary Cosmic Ray Mass Composition
Yuri V. Stenkin and A. L. Tsyabuk
-
- 1-P-244 Atmospheric Muon Measurements at Sea Level II: A Maximum Likelihood Analysis
Shuhei Tsuji et al.
-
- 1-P-245 Atmospheric Muon Measurements at Sea Level I: The Detector
Masahiro Tokiwa et al.
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- 1-P-246 The Charge Ratio of the Atmospheric Muons as Probe for Azimuthal Asymmetry
Iliana Magdalena Brancus et al.
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- 1-P-247 Measurements of Albedo Muon Intensity at the Earth's Surface
Igor Ivanovich Yashin et al.
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- 1-P-248 Analysis of Continuous Cosmic-Ray Measurements in Belgrade
Radomir M. Banjanac et al.
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- 1-P-249 ACORDE, a Cosmic Ray Detector in ALICE. Firsts Simulation Studies
Arnulfo Zepeda Dominguez et al.
-
- 1-P-250 Possibility to Search for VHE Muons with Baksan Underground Scintillation Telescope
Valery Borisovich Petkov et al.

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- 1-P-251 Recoil Electron Energy Spectrum in Super-Kamiokande and Sno Detectors
Probhas Raychaudhuri
-
- 1-P-252 Antineutrino Search at the Sudbury Neutrino Observatory
Thomas Kutter for the Sudbury Neutrino Observatory Collaboration
-
- 1-P-253 Analysis of Upward through Going Muon Events and Stopping Muon Events in the Virtual Super-Kamiokande Detector and the Neutrino Oscillation
Akeo Misaki et al.
-
- 1-P-254 CNGS Beam Monitor with the LVD Detector
Gabiella Sartorelli for the LVD Collaboration

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- 1-P-255 Study of the Effect of Neutrino Oscillation on the Super-Nova Neutrino Signal with the LVD Detector
Marco Selvi for the LVD Collaboration
-
- 1-P-256 AMANDA-B10 Limit on UHE Muon-Neutrinos
Stephan Hundertmark for the AMANDA Collaboration
-
- 1-P-257 Search for Diffuse Fluxes of Extraterrestrial Muon-Neutrinos with the AMANDA Detectors
Gary Colin Hill for the AMANDA Collaboration
-
- 1-P-258 Online Search for Neutrino Bursts from Supernovae with the AMANDA Detector
Thomas Feser for the AMANDA Collaboration
-
- 1-P-259 Computational Techniques for Simulating Light Propagation in High-Energy Neutrino Telescopes
Predrag Miocinovic and P. Niessen
-
- 1-P-260 Measurement of the Radiofrequency Properties of Antarctic Ice with the RICE Detector
Surujhdeo Seunarine et al.

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- 1-P-261 Simulations of the Radio Frequency Signals Produced by Electromagnetic Showers in Ice
Surujhdeo Seunarine et al.
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- 1-P-262 ANTARES Status Report
Teresa Montaruli for the ANTARES Collaboration
-
- 1-P-263 The Design Study for the Hyper Baikal Detector(HBD) in Lake Baikal for Extremely High Energy Neutrino Astrophysics - Strategy and the Present Purpose
Akeo Misaki et al.
-
- 1-P-264 New Capabilities of the AMANDA-II High Energy Neutrino Detector
Wolfgang Wagner for the AMANDA Collaboration
-
- 1-P-265 Response of AMANDA-II to Cosmic Ray Muons
Paolo Desiati for the AMANDA Collaboration
-
- 1-P-266 NESTOR Neutrino Telescope Status Report
Peter K. F. Grieder for the NESTOR Collaboration
-
- 1-P-267 Detection of Tau Neutrinos in Underwater Neutrino Telescopes
Teresa Montaruli and I. Sokalski
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- 1-P-268 Time Variations in Solar Neutrino Flux
Probhas Raychaudhuri
-
- 1-P-269 Neutrinos in Pion and Muon Decays at Neutrino Factories and Lsnd Excess
Probhas Raychaudhuri
-
- 1-P-270 High Energy Extension of the FLUKA Atmospheric Neutrino Flux
Teresa Montaruli et al.
-
- 1-P-271 Simulation of Atmospheric Neutrino Fluxes with CORSIKA
Iliana Magdalena Brancus et al.
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- 1-P-272 A 3-Dimensional Atmospheric Neutrino Flux Calculation
Giles Barr et al.
-
- 1-P-273 Discrimination of Muon Neutrino from Electron Neutrino in the Virtual Super-Kamiokande Detector
Eiichi Konishi et al.
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- 1-P-274 On the Binning of Atmospheric Neutrino Fluxes near the Horizon in Monte–Carlo Calculations
Simon A. M. Robbins, Giles Barr, and Tom Gaisser
-
- 1-P-275 Energy Fluctuation of Tau Leptons Emerging from Earth
Minghuey A. Huang, Lin, and J. J. Tseng
-
- 1-P-276 Tau Neutrinos at EeV Energies
Mary Hall Reno et al.
-
- 1-P-277 Neutrinos from Cosmological Cosmic Rays
Ricardo Vazquez, Diego Gonzalez Diaz, and E. Zas
-
- 1-P-278 Prompt Neutrino Production by the Lunar Surface
Victor Andersen and L. S. Pinsky
-
- 1-P-279 Some Aspects of LF-MF Radioemission Associated with Extensive Ice Shower Initiated by High Energy Neutrinos
Kalpana Roy Sinha, Pranayee Datta, and Tulshi Bezboruah
-
- 1-P-280 High Energy Neutrino Generator for Neutrino Telescopes
Marek P. Kowalski and A. Gazizov
-
- 1-P-281 The Cross-Section of Muon Photo-Nuclear Interaction
Choji Saji, A. V. Butkevich, and S. P. Mikheyev
-
- 1-P-282 Propagation of Extremely High Energy Leptons in the Earth
Shigeru Yoshida
-

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- 1-P-283 Splitting Model of the Single Scattering to Reconstruct the Molière Process of Multiple Coulomb Scattering
Takao Nakatsuka
-
- 1-P-284 A High-Accurate and High-Efficient Monte Carlo Code by Improved Molière Functions with Ionization
Takao Nakatsuka and Kazuhide Okei
-
- 1-P-285 A Modern Theory of Neutrino Oscillations
Khamidbi Muchamedovich Beshtoev
-
- 1-P-286 Some Unsettled Questions in the Problem of Neutrino Oscillations. Mechanisms of Neutrino Oscillations
Khamidbi Muchamedovich Beshtoev
-
- 1-P-287 Some Unsettled Questions in the Problem of Neutrino Oscillations. Experiments
Khamidbi Muchamedovich Beshtoev
-

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- 1-P-288 Cherenkov Radiation of Extensive Air Showers Observed at Large Zenith Angles by SHALON
Vera Yurievna Sinitsyna et al.
-
- 1-P-289 Radio Pulses Generated by Showers in Different Dense Media
Jaime Alvarez-Muniz et al.
-
- 1-P-290 NuTel: a Neutrino Telescope for Observing ν_τ from AGN
Min-Zu Wang for the NuTel Collaboration
-
- 1-P-291 Study of Photomultiplier Tubes for the ANTARES Neutrino Telescope
Juan-de-Dios Zornoza on behalf of the ANTARES Collaboration
-
- 1-P-292 Time Calibration of the ANTARES Neutrino Telescope
Juan-Jose Hernandez-Rey for the ANTARES Collaboration
-
- 1-P-293 A Data Acquisition System for the ANTARES Neutrino Telescope
Mieke Bouwhuis for the ANTARES Collaboration
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HE: POSTER Session 2

Authors in attendance: August 3, August 5, August 6

16:30–17:30 (August 3, 5), 16:00–17:00 (August 6)

Multi-Purpose Hall

HE 1.5

- 2-P-001 Analysis of Emulsion Chambers in Tibet Hybrid Experiment Using the Image Scanner
Makio Shibata for the Tibet ASgamma Collaboration
-
- 2-P-002 Analog Read-Out of the RPCs in the ARGO-YBJ Experiment
Michele Iacovacci for the ARGO-YBJ Collaboration
-
- 2-P-003 The Trigger System of the ARGO-YBJ Detector
Antonio Surdo for the ARGO-YBJ Collaboration
-
- 2-P-004 The Online System of the ARGO Experiment
Huihai He for the ARGO Collaboration
-
- 2-P-005 Development of Resistive Plate Counter for the Extended Mini-Array Experiment at Gauhati University
Subhash Chandra Rajbongshi et al.
-
- 2-P-006 Shower Reconstruction Performance of KASCADE-Grande
Gernot Maier for the KASCADE-Grande Collaboration
-
- 2-P-007 The Wide Range Front-End Electronics for Readout Amplitude Date of the Ionization Calorimeter
Turlan Khamzinovich Sadykov et al.
-
- 2-P-008 Delayed Scintillator Pulses Observed with an EAS Array
Harri K. Arvela and A.-M. Elo
-

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- 2-P-009 Depth Distribution of the Maxima of Extensive Air Shower
James H. Adams, Jr. for the EUSO Collaboration
-
- 2-P-010 A Proposal of a Single Chip Surface Detector Trigger Based on Altera CycloneTM Family
Zbigniew Szadkowski
-
- 2-P-011 Study of Long Term Stability of the Pierre-Auger Surface Detector Using Muon Events
Tohru Ohnuki et al.
-
- 2-P-012 Production Test System and Results on Large PMTs for Pierre-Auger Surface Detectors
Katsushi Arisaka et al.
-
- 2-P-013 The Pierre Auger Surface Detector Led Flashers and Their Use for Monitoring and Calibration
Tiina Suomijarvi for the Pierre Auger Collaboration
-
- 2-P-014 Photon Yields from Dry Air Excited by Electrons
Keizo Kobayakawa et al.
-
- 2-P-015 Measurements of Diffuse Night Sky Background
Osvaldo Catalano et al.
-
- 2-P-016 AIRFLY: Air Fluorescence Induced by Electrons in a Wide Energy Range
Paolo Privitera et al.
-
- 2-P-017 Measurements of the *UV* Nocturnal Atmospheric Background in the 300-400 nm Wavelength Band with the Experiment BaBy during a Transmediterranean Balloon Flight
Andrea Santangelo et al.
-
- 2-P-018 Study of the Fluorescence Yield for Electrons between 0.5 - 2.2 MeV
Ernesto Kemp et al.
-
- 2-P-019 Study on Wavelength Shifters and Multilayer Half-Mirror for High-QE PMT
Masahiro Takeda for the EUSO Collaboration
-
- 2-P-020 "Mobile ACE" - New Approach to Reduce Systematic Errors in the Absolute Energy by Fluorescence Detectors
Katsushi Arisaka
-
- 2-P-021 Checking the Pointing Accuracy of Air Fluorescence Detectors with Star Light
Stefan Westerhoff for the HiRes Collaboration
-
- 2-P-022 Evaluation of Flat Microchannel Plate Photomultipliers for Use in a Portable Air Fluorescence Detector
S. BenZvi and J. Martin
-
- 2-P-023 APF Light Sources for the Auger Southern Observatory
John A. J. Matthews for the Pierre Auger Collaboration
-
- 2-P-024 Atmospheric Monitoring for the Telescope Array Experiment
Michiyuki Chikawa et al.
-
- 2-P-025 The Influence of the Global Atmospheric Properties on the Detection of UHECR by EUSO on Board of the ISS
Didier Lebrun for the EUSO Collaboration
-
- 2-P-026 Environmental Testing of the Front-End Electronics for the Auger Observatory Surface Detector
James Dominic Chye for the Pierre Auger Collaboration
-
- 2-P-027 The Slow Control System of the Auger Fluorescence Detectors
Hartmut E. H. Gemmeke et al.
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- 2-P-028 A Novel Approach in Detecting the UHECR Using EAS Telescopes Notch Optical Filters Combining Optimum Sensitivity for Cherenkov and Fluorescence Contributions
Emmanuel D. Fokitis et al.
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- 2-P-029 Tracking Stars with the Fluorescence Detector of the Pierre Auger Observatory
Daniel V. Camin et al.
-
- 2-P-030 Portable, Single-Mirror, Air Fluorescence Detector
Robertsen A. Riehle et al.
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- 2-P-031 A New Technique Producing Double-Sided Spherical Fresnel Lens Segments Assembled to Large Aperture Lenses
Hitoshi Ohmori for the EUSO Collaboration
-
- 2-P-032 A Ground-Based UV Light Source for the EUSO Mission
James H. Adams, Jr.
-
- 2-P-033 The Light of the Night Sky in EUSO: Duty Cycle and Background
Didier Lebrun et al.
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- 2-P-034 Development of Multi-Anode Photomultipliers for the EUSO Focal Surface Detector
Naoto Sakaki for the EUSO Collaboration
-
- 2-P-035 Wide-Angle Optical Telescope for the EUSO Experiments
Lloyd W. Hillman for the EUSO Collaboration
-
- 2-P-036 The Housing of the EUSO Photo-Detector Sensors
Marco Pallavicini for the EUSO Collaboration
-
- 2-P-037 Simulation and Data Analysis for EUSO
Giacomo D'Ali Staiti for the EUSO Collaboration
-
- 2-P-038 A PCI Based Data Acquisition System for Ground Array Detectors with Wireless Synchronization through GPS
Mario Pimenta et al.
-
- 2-P-039 EUSO Analog Front End Electronics
Dy-Holm Koang for the EUSO Collaboration
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- 2-P-040 EUSO Analog Front End Electronics and Calibrations
Dy-Holm Koang for the EUSO Collaboration
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- 2-P-041 Simulation of Ice Cherenkov Detectors for IceTop
Todor S. Stanev for the IceCube Collaboration
-
- 2-P-042 Complex EAS Array for Super-High Energy Cosmic Ray Research
German V. Kulikov et al.
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- 2-P-043 Perspectives of the ATHLET Installation at the Tien Shan
Rauf A. Mukhamedshin et al.
-
- 2-P-044 Antarctic Balloon Measurements of UHE CR (SPHERE Experiment)
Sergey Borisovich Shaulov et al.
-
- 2-P-045 The KASCADE-Grande Experiment
Andreas Haungs for the KASCADE-Grande Collaboration
-
- 2-P-046 Underground Multimuo Experiment in Pyhäsalmi Mine
Timo T. Enqvist et al.
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- 2-P-047 SEASA: The Stockholm Educational Air Shower Array
Mark Pearce et al.
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- 2-P-048 The Status and Future Prospect of the LAAS Project
Isao Yamamoto for the LAAS Group
-
- 2-P-049 Prototype of a Space Fluorescence Detector at Cerro La Negra Mountain Site
Humberto A. Salazar et al.
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- 2-P-050 Hybrid Cosmic Ray Detector at Pico de Orizaba
Oscar M. Martinez et al.
-
- 2-P-051 SCROD: School Cosmic Ray Outreach Detector
John David Swain et al.
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- 2-P-052 The Surface Detectors of the Pierre Auger Observatory
Peter O. Mazur for the Pierre Auger Collaboration
-
- 2-P-053 Simulation of Pierre Auger Surface Detector Response to Muons
Katsushi Arisaka et al.
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- 2-P-054 The Auger Observatory Roving LIDAR System
Michael D. Roberts, P. Sommers, and B. Fick
-
- 2-P-055 The ETScope Ground Array for the ULTRA Experiment
Piero Vallania for the EUSO Collaboration
-
- 2-P-056 CHICOS Detector Stations
Robert D. McKeown et al.
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- 2-P-057 The Washington Large Area Time Coincidence Array
Richard Gran et al.
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- 2-P-058 AGASA Results and EUSO
Motohiko Nagano for the EUSO Collaboration
-
- 2-P-059 The EUSO Science Operations and Data Centre
Maria Catarina Espirito Santo for the EUSO Collaboration
-
- 2-P-060 The ULTRA Experiment: A Supporting Activity for the Euso Project
Piero Vallania et al.
-
- 2-P-061 TUS/KLYPVE Space Telescopes – Simulation of Performance
Dmitry Vadimovich Naumov et al.
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- 2-P-062 Downward Neutrino Induced EAS with EUSO Detector
Sergio Bottai for the EUSO Collaboration
-

Conference Room 201

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- 2-P-241 One-Dimensional Hybrid Simulation of EAS Using Cascade Equations
Ralph Engel et al.
-
- 2-P-242 Numerical Results of the Improved Differential and Integral Cross Sections for Bremsstrahlung and Pair Production with the LPM Effect
Nobusuke Takahashi et al.
-
- 2-P-243 LPM Showers in the Atmosphere Taking into Account the Geomagnetic Field
Hristofor Petrov Vankov et al.
-
- 2-P-244 Description of Cascades with Energies above the GZK Cut-Off
Alexander A. Kirillov et al.
-
- 2-P-245 Application and Properties of the Probability Density $A \exp(-(x - c)^2 / (a(x - c) + 2b^2))$
Alexander A. Kirillov
-
- 2-P-246 A New Software Package for Computing the Time-Dependent Aperture of the Auger Surface Detector
Aaron S. Chou
-
- 2-P-247 Identification of Photons in Ultra-High Energy Cosmic Rays
Piotr Homola et al.
-
- 2-P-248 Contribution of Multiple Scattering of Cherenkov Photons to Shower Optical Image
Piotr Homola et al.
-
- 2-P-249 A Top-Down Technique as an Analysis Tool for Auger Fluorescence Data
Carlos Kjell Guerard, M. Bohacova, and L. Perrone
-
- 2-P-250 Auger-South Hybrid Sensitivity to Highly Inclined Hadron-Induced Air-Showers: Mass Composition at High Energy
Carlos Kjell Guerard et al.
-
- 2-P-251 Importance of Atmospheric Model in Shower Reconstruction
Barbara Wilczynska et al.
-
- 2-P-252 Monte-Carlo Simulation of Horizontal Air Shower
Ming-Huey Alfred Huang, P. Yeh, and C. C. Hsu
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- 2-P-253 Shower Simulation Input for Fluorescence Yield Measurements
Markus Risse and D. Heck
-
- 2-P-254 Analytical Versus Monte Carlo Description of Cherenkov Contribution in Air Showers
Markus Risse et al.
-
- 2-P-255 Simulation of Cherenkov Contamination for Cosmic-Ray Showers Observed with the Auger Fluorescence Telescopes
Lorenzo Perrone et al.
-
- 2-P-256 On the Cherenkov Light Contribution to the Fluorescence of the Highest Energy Air Showers
Grzegorz J. Wieczorek et al.
-
- 2-P-257 Shower Fluorescence Light Profile Derived from CORSIKA
Henryk Wilczynski et al.
-
- 2-P-258 Study of Shower Optical Image Based on Energy Deposits Derived from CORSIKA
Henryk Wilczynski et al.
-
- 2-P-259 Systematic Calculation of the Efficiency of the Fluorescence Detector Using Appropriate EAS Simulations
Emmanuel Fokitis et al.
-
- 2-P-260 The GZK Paradox and Estimation of Energy of the Primary Cosmic Rays
Leonid G. Dedenko et al.
-
- 2-P-261 Small Scale Clustering in Isotropic Arrival Distribution of Ultra-High Energy Cosmic Rays
Hiroyuki Yoshiguchi et al.
-
- 2-P-262 Mass Composition of the Primary Cosmic Rays in the Energy Region $10^{14} \div 10^{20}$ eV in Anomalous Diffusion Model
Akeo Misaki et al.
-
- 2-P-263 Numerical Likelihood Analysis of Cosmic Ray Anisotropies
John David Swain et al.
-
- 2-P-264 Acceleration of Ultrahigh Energy Cosmic Rays by Shocks in Active Galactic Nuclei
Yasuko S. Honda
-
- 2-P-265 New Hadrons as Ultra-High Energy Cosmic Rays
Dmitry V. Semikoz, M. Kachelriess, and M. A. Tortola
-
- 2-P-266 Cosmic Rays from the Nucleus of M87
Alina C. Donea, R. J. Protheroe, and A. Reimer
-
- 2-P-267 A Possible Contribution of Companion Galaxies to Intra and Extra-Cluster UHE Cosmic Rays
Catia Grimani
-
- 2-P-268 Testing Scenarios of Lorentz Symmetry Violation Generated at the Planck Scale
Luis Gonzalez-Mestres
-
- 2-P-269 Internal Structure of Ultra-High Energy Particles with Lorentz Symmetry Violation at the Planck Scale
Luis Gonzalez-Mestres
-
- 2-P-270 Using Fractal Dimensionality in the Search for Anisotropy of Ultra-High Energy Cosmic Rays
Benjamin T. Stokes for the HiRes Collaboration
-
- 2-P-271 Gamma-Ray Emission as a Tracer of UHECR Sources
Peter Tinyakov et al.
-
- 2-P-272 The Last Gamma Ray Burst in our Galaxy? On the Observed Cosmic Ray Excess at 10^{18} eV
Gustavo A. Medina Tanco et al.
-
- 2-P-273 Multiple UHECR Events from Galactic Hadron Jets
Etienne Parizot
-
- HE 3.1**
-
- 2-P-274 On the Problem of High Transverse Momenta in the Interactions of Hadrons at Energies about 10^{16} eV
Jan Malinowski
-

-
- 2-P-275 Status of the HARP Experiment at CERN
Simon A. M. Robbins for the HARP Collaboration
-
- 2-P-276 The Accelerator Data - Cosmic Ray Monte Carlo Interface; An Update
Lawrence W. Jones
-
- 2-P-277 How Fast Is the Growth of Total Cross Section at High Energies?
Fazal Aleem et al.
-
- 2-P-278 Note on the Energy Distribution of Produced Particles in Multiple Particle Production
Akinori Ohsawa and M. Tamada
-
- 2-P-279 Investigation of Geometrical Structures in the Hadronic Shower Core
Joerg Rudolf Hoerandel for the KASCADE Collaboration
-
- 2-P-280 Remarkable Events in the Knee Region and Abnormal Behaviour in EAS Data
Jean-Noel Capdevielle et al.
-
- 2-P-281 Nature of 100 TeV Hadronic Interactions in the Forward Region Seen from Muon Data of the L3+C Experiment
Qing-Qi Zhu on behalf of the L3 Collaboration
-
- 2-P-282 Fractionally Charged Particles in Cosmic Rays? Reevaluation of the Data
George Bashindzhagyan
-
- 2-P-283 Non-Extensivity Parameter in Thermodynamical Model of Hadronic Interactions
Izabela Kurp and T. Wibig
-
- 2-P-284 Collective Behaviour in Nuclear Interactions and Shower Development
Ricardo Vazquez et al.
-
- HE 3.2**
-
- 2-P-285 New Constraints on the Nature of Space-Time Planck Scale Fluctuations Using X-Ray and TeV Gamma-Ray Observations
Roland Le Gallou et al.
-
- 2-P-286 Probing TeV Gravity with Extensive Air-Showers
Maximo David Ave Pernas et al.
-
- HE 3.3**
-
- 2-P-287 Search for Correlated Air Showers with GRAPES-2 and GRAPES-3 Arrays
Suresh Chandra Tonwar et al.
-
- 2-P-288 Search for Magnetic Monopoles at a High Altitude Laboratory
Stefano Cecchini for the SLIM Collaboration
-
- 2-P-289 Measuring the Scale of Quantum Gravity with MAGIC
Manel Martinez for the MAGIC Collaboration
-
- 2-P-290 Cosmic Ray Antiprotons from Relic Neutralinos in a Diffusion Model
Fiorenza Donato et al.
-
- 2-P-291 An Improved Gamma-Ray Limit on the Density of Primordial Black Holes
Laurent Derome, A. Barrau, and G. Boudoul
-
- 2-P-292 On the Detectability of Gamma-Rays from Dark Matter Annihilation in the Local Group with Ground-Based Experiments
Lidia Pieri and E. Branchini
-
- 2-P-293 Superluminal Particles, Cosmology and Cosmic-Ray Physics
Luis Gonzalez-Mestres
-
- 2-P-294 Searching for a Long Cosmic String through the Gravitational Lensing Effect
Yuji Shirasaki et al.
-
- 2-P-295 H non-Heiles Type Hamiltonian in Cosmological Perspective
Balendra Kr Dev Choudhury and B. C. Kalita
-

2-P-296 Mass Formulae for Particles
Michi Turu

HE 3.4

2-P-297 The AMS-02 Tracker
Claudia Cecchi et al.

2-P-298 Nuclearite Search with the TL Stack Detector at Ground Level
Tomonori Wada et al.

OG: Oral Sessions

OG: Cosmic Ray Origin and Galactic Phenomena

July 31

14:30–16:30 Convention Hall 300

OG 1.1

1 Protons with Energy $E > 70$ MeV Trapped in the Earth's Radiation Belts
Bruna Bertucci for the AMS-01 Collaboration

2 Leptons with $E > 200$ MeV Trapped in the Earth's Radiation Belts Observed with the AMS Experiment
Bruna Bertucci for the AMS-01 Collaboration

3 Search for Doubly Charged Anomalously Heavy Nuclei with AMS Detector in Space
Vitali Choutko for the AMS-01 Collaboration

4 Cosmic Ray Flux Measurements Made by MARIE in Mars Orbit
Kerry T. Lee et al.

5 Extended Energy Spectrum Measurements of Elements with the Cosmic Ray Isotope Spectrometer (CRIS)
Allan Wayne Labrador et al.

6 New Measurements of the Li, Be, and B Isotopes as a Test of Cosmic Ray Transport Models
Georgia A. de Nolfo et al.

7 Measurements of the Ultra-Heavy Galactic Cosmic-Ray Abundances between $Z=30$ and $Z=40$ with the TIGER Instrument
Jason T. Link et al.

8 Measurement of the Cosmic-Ray Antiproton Energy Spectrum with HEAT-pbar
Simon Swordy et al.

9 Measurement of the Deuterium Flux in the Kinetic Energy Range 12-22 GeV/n with the CAPRICE98 Experiment
Elena Vannuccini for the WiZard/CAPRICE Collaboration

10 Cosmic Ray ^3He and ^4He Spectra from BESS 98
Zachary D. Myers and E. S. Seo

August 1

9:10–10:34 Convention Hall 300

OG 1.1

11 Measurement of High Energy ^3He in Cosmic Rays by the CAPRICE98 Balloon Experiment
Emiliano Mocchiutti for the WiZard/CAPRICE Collaboration

12 Measurement of Electron Spectrum to High Energies with the BESS-1999 Experiment
Thomas Hams et al.

13 High Energy Cosmic Ray Electron Spectra Measured from the ATIC Balloon Experiment
Jin Chang for the ATIC Collaboration

-
- 14 Cosmic-Ray Proton and Helium Spectra Measured with BESS-TeV
Sadakazu Haino for the BESS Collaboration
-
- 15 Rigidity Spectra of Protons and Helium as Measured in the First Flight of the ATIC Experiment
Victor I. Zatsepin et al.
-
- 16 Atic Experiment: Elemental Spectra from the Flight in 2000
Hoseok Ahn for the ATIC-1 Collaboration
-
- 17 Primary Proton and Helium Spectra Observed by RUNJOB Collaboration
Makoto Hareyama for the RUNJOB Collaboration
-

14:30–16:30 Convention Hall 300

OG 1.1

- 18 The ATIC Science Flight in 2002-03: Description and Preliminary Results
John P. Wefel et al.
-
- 19 Relative Abundances and Energy Spectra of C, N, and O as Measured by the Advanced Thin Ionization Calorimeter Balloon Experiment
Ali Reza Fazely et al.
-
- 20 Energy Spectra and Relative Abundances of Heavy Cosmic-Ray Nuclei around 1 TeV/Nucleon
Dietrich Muller et al.
-
- 21 Primary Heavy Components Spectra and 2-ry/1-ry Ratio Observed by RUNJOB Collaboration
S. Kuramata for the RUNJOB Collaboration
-
- 22 The CAKE Balloon Experiment
Stefano Cecchini et al.
-
- 23 All Particle Spectrum, Average Mass from RUNJOB Data
L. G. Sveshnikova for the RUNJOB Collaboration
-

OG 1.5

- 1 Atmospheric Protons and Antiprotons from Sea Level to Satellite Altitudes
Laurent Derome et al.
-
- 2 Calculation of Cosmic-Ray Proton and Anti-Proton Spatial Distribution in Magnetosphere
Michio Fuki, A. Kuwahara, and N. Sawada
-
- 3 BESS-Polar Experiment
Tetsuya Yoshida for the BESS Collaboration
-
- 4 High Energy Electron Observation by Polar Patrol Balloon Flight in Antarctica
Shoji Torii et al.
-

17:30–19:42 Convention Hall 300

OG 1.5

- 5 CREAM for High Energy Composition Measurements
Eun-Suk Seo et al.
-
- 6 Design and Construction of the Silicon Charge Detector for the CREAM Mission
H. Park et al.
-
- 7 Status of the PAMELA Experiment On-Board of the Resurs DK-1 Spacecraft
Manfred Simon on behalf of the Pamela Collaboration
-
- 8 PAMELA Space Mission: The Transition Radiation Detector
Francesco S. Cafagna et al.
-
- 9 The Anticounter System of the PAMELA Space Experiment
Mark Pearce et al.
-

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- 10 The Alpha Magnetic Spectrometer on the International Space Station
Simonetta Gentile for the AMS-02 Collaboration
-
- 11 Cosmic-Ray Astrophysics with AMS-02
Jorge Casaus for the AMS-02 Collaboration
-
- 12 The Superconducting Magnet System of the Alpha Magnetic Spectrometer AMS-02
Bertrand Blau et al.
-
- 13 The AMS-02 RICH Imager Prototype In-Beam Tests with 20 GeV/c per Nucleon Ions
Michel J. Buenerd et al.
-
- 14 The AMS-02 TRD for the International Space Station
Simonetta Gentile for the AMS 02/TRD Group
-
- 15 AMS-02 Electronics
Eduardo Cortina for the AMS 02 Collaboration
-

August 2

9:10–10:34 Convention Hall 300

OG 1.5

- 16 The CALorimetric Electron Telescope, CALET, Mission for the International Space Station
Shoji Torii for the CALET Collaboration
-
- 17 Compatibility of CALorimetric Electron Telescope (CALET) for JEM Exposed Facility on International Space Station
Masahiro Takayanagi for the CALET Collaboration
-
- 18 Expected Performance of CALET from Simulation
Jin Chang for the CALET Collaboration
-
- 19 NUCLEON Satellite Mission. Status and Plans
George Bashindzhagyan et al.
-
- 20 The KLEM-NUCLEON Instrument Detailed Simulation
Andrey N. Turundaevsky et al.
-
- 21 The Modern Concept of the INCA Project
Rauf A. Mukhamedshin for the INCA Collaboration
-
- 22 The Russian-US INTREPID Project
Rauf A. Mukhamedshin et al.
-

11:05–12:17 Convention Hall 300

OG 1.5

- 23 Comparison of a Transition Radiation Detector Response with Numerical Simulations
Simon P. Swordy, Patrick Boyle, and Scott Wakely
-
- 24 Transition Radiation Detectors for Cosmic Rays near the Knee
Scott P. Wakely et al.
-
- 25 RIO: The R-Process Isotope Observer
B. A. Weaver and A. J. Westphal
-

OG 1.2

- 1 A Possible Causal Relation of the Source Composition of Cosmic Rays with the Elemental Depletion in the Interstellar Space
Kunitomo Sakurai
-
- 2 Refractory Nuclides in the Cosmic-Ray Source
M. E. Wiedenbeck et al.
-

-
- 3 Confidence Levels for Distinguishing Galactic Cosmic-Ray Source Models
B. A. Weaver and A. J. Westphal
-

14:30–16:18 Convention Hall 300 (1/2 parallels)

OG 2.4

- 1 Spectral Properties of “Classical” GRBs Seen by HETE-2 Satellite
Atsumasa Yoshida et al.
-
- 2 Timing Properties of GRBs Detected by HETE-2
Motoko Suzuki et al.
-
- 3 GRB with INTEGRAL
Nicolas Produit
-
- 4 Expected Event Rate of Subhundred-GeV Gamma Ray Bursts Using the Tibet-III Air Shower Array with Single Particle Counting Technique
Harufumi Tsuchiya for the Tibet ASgamma Collaboration
-
- 5 Search for Sub-TeV Gamma Rays Coincident with BATSE Gamma Ray Bursts
Christopher P. D’Andrea et al.
-
- 6 Search for Neutrinos from Gamma-Ray Bursts Using Super-Kamiokande
Dusan Turcan for the Super-Kamiokande Collaboration
-
- 7 Searching for High Energy Muon Neutrinos from Gamma-Ray Bursts with AMANDA
Gary Hill for the AMANDA Collaboration
-
- 8 X-Ray and Gamma Ray Bursts from Collapsing Stars
Volodymyr Kryvdyk
-
- 9 The Log-Normal Distributions of Coronal Mass Ejection-Related Solar Flares and the Flare/CME Model of Gamma-Ray Bursts
Seiichiro Aoki, S. Yashiro, and K. Shibata
-

14:30–16:18 Conference Room 202 (2/2 parallels)

OG 1.3

- 1 Propagation of Light Elements in the Galaxy
Igor V. Moskalenko et al.
-
- 2 Antiprotons in CR: What Do They Tell Us?
Igor V. Moskalenko et al.
-
- 3 Dissipation of Hydromagnetic Waves on Energetic Particles: Impact on Interstellar Turbulence and Cosmic Ray Transport
Frank C. Jones et al.
-
- 4 A New Thought on the Energy Dependence of the $^{10}\text{Be}/^9\text{Be}$ Ratio
Manfred Simon and A. Molnar
-
- 5 Abundance Ratio of Secondary to Primary Expected from the Boundaryless Galaxy Model
Makoto Hareyama et al.
-
- 6 Propagation of Radioactive Secondaries in Cosmic Rays
Toru Shibata, T. Ito, and M. Hareyama
-
- 7 Stable and Radioactive Nuclei in a Diffusion Model
Fiorenza Donato, D. Maurin, and R. Taillet
-
- 8 Calculation of Elemental and Isotopic Abundance of Cosmic Rays Using Markov Stochastic Theory: The Effect of Local Superbubble
Ashraf M. Farahat et al.
-

-
- 9 Stochastic Effects on the Electron Spectrum above TeV Energies
Simon P. Swordy
-

17:30–19:18 Convention Hall 300

OG 1.3

- 10 The Origin of High Energy Cosmic-Ray Electrons and nearby Supernova Remnants
Kenji Yoshida et al.
-

- 11 Second-Order Fermi Acceleration in the Interstellar Medium and Its Effects on Cosmic-Ray Electrons
Yoshiko Komori
-

OG 1.4

- 1 Cosmic Ray Acceleration at Parallel Relativistic Shocks in the Presence of Finite-Amplitude Magnetic Field Perturbations
Jacek Niemiec and M. Ostrowski
-

- 2 Electron and Proton Acceleration in SNR
Paolo Lipari and Giovanni Morlino
-

- 3 Cosmic Ray Acceleration by Spiral Shocks in the Galactic Wind
Heinrich J. Voelk and V. N. Zirakashvili
-

- 4 Nonthermal Electron Acceleration at Supernova Shocks: Relativistic Shock Surfing Mechanism
Masahiro Hoshino and N. Shimada
-

- 5 Shock Acceleration and Gamma Radiation in Clusters of Galaxies
Pasquale Blasi and S. Gabici
-

- 6 Particle Acceleration in Clusters of Galaxies
Motokazu Takizawa et al.
-

- 7 Particle Acceleration and Emission in Relativistic Jets
Ken-Ichi Nishikawa et al.
-

August 3

9:10–10:34 Convention Hall 300

OG 2.2

- 1 A Wide Sky Survey for TeV γ -Ray Sources by Using the Tibet-III Air Shower Array
Shuwang Cui for the Tibet ASgamma Collaboration
-

- 2 Scans of the TeV Gamma-Ray Sky with the HEGRA System of Cherenkov Telescopes
Gerd Pühlhofer for the HEGRA Collaboration
-

- 3 Observation of Galactic TeV Gamma Ray Sources with H.E.S.S.
Conor P. Masterson for the H.E.S.S. Collaboration
-

- 4 Search for Discrete Sources of Gamma-Rays ($E \geq 30$ TeV) with the GRAPES-3 Experiment
Dhirendra K. Mohanty for the GRAPES Collaboration
-

- 5 EGRET Observations of Galactic Relativistic Jet Sources
Olaf Reimer and A. Iyudin
-

- 6 The New Unidentified TeV Source in Cygnus (TeV J2032+4130): HEGRA IACT-System Results
Gavin Peter Rowell for the HEGRA Collaboration
-

- 7 Can One See Gamma Rays from the Single Source Responsible for the Knee?
Anatoly D. Erlykin and A. W. Wolfendale
-

14:30–16:30 Convention Hall 300

OG 2.2

- 8 Can Gamma Ray Astronomy Disprove the Hypothesis That Cosmic Rays Originate in Supernova Remnants?
Arnold W. Wolfendale and A. D. Erlykin

 - 9 Observed and Expected TeV Gamma-Ray Emission from Geminga and Tycho's Supernova Remnants
Vera Yurievna Sinitsyna et al.

 - 10 A Search for Pulsed TeV Gamma-Ray Emission from the Crab Pulsar Using the Whipple High Resolution GRANITE III Camera
Stephen Gammell for the VERITAS Collaboration

 - 11 An Understanding of the Non-Thermal Radiation from the Crab Nebula
S. Alfred Stephens and R. E. Streitmatter

 - 12 Evidence of a Curved Cosmic-Ray Electron Spectrum in the Supernova Remnant SN 1006
Glenn E. Allen, J. C. Houck, and S. J. Sturmer

 - 13 TeV Gamma-Ray Observations of the Supernova Remnant RCW86 with the CANGAROO-II Telescope
Shio Watanabe for the CANGAROO Collaboration

 - 14 Observation of Sub-TeV Gamma-Rays from RX J0852.0– 4622 with the CANGAROO-II Telescope
Hideaki Katagiri for the CANGAROO Collaboration

 - 15 Magnetic Field Configurations in SN 1006 NE Rim
Ryo Yamazaki et al.

 - 16 Nuclear Cosmic Rays from Supernova Remnants
Evgeny G. Berezhko et al.

 - 17 Evidence for Efficient Cosmic Ray Acceleration in SN 1006
Heinrich J. Voelk, E. G. Berezhko, and L. T. Ksenofontov
-

17:30–18:42 Convention Hall 300

OG 2.2

- 18 Gamma-Rays from the Close Massive Binary Cyg X-3
Agnieszka Sierpowska and W. Bednarek

 - 19 The TeV Gamma-Ray Emission Mechanism of PSR 1706–44 Based on the Multi-Wavelength Spectrum
Junko Kushida for the CANGAROO Collaboration

 - 20 PACT Results on Very High Energy γ -Ray Emission from CRAB Pulsar
Bannanje Sripathi Acharya et al.

 - 21 Neutrons, Gamma-Rays and Neutrinos from the Galactic Centre
Wlodek Bednarek

 - 22 Very High Energy Gamma-Ray Observations of the Galactic Center with the CANGAROO-II Telescope
Ken'ichi Tsuchiya for the CANGAROO Collaboration

 - 23 Search for a WIMP Annihilation Signature in the Core of the Globular Cluster M15
Stephan L. LeBohec for the VERITAS Collaboration
-

August 5

9:10–10:34 Convention Hall 300

OG 2.5

- 1 Performance of Newly Developed Hard X-Ray Polarimeter with Multianode PMT
Shuichi Gunji et al.

 - 2 The INTEGRAL Mission
Nicolas Produit
-

-
- 3 Scientific Performance of the CALET Instrument for the 20MeV-10TeV Gamma-Ray Observation
Kenji Yoshida for the CALET Collaboration

 - 4 Optimized Pointing Strategies for Solar Tower ACTs
Richard Allen Scalzo et al.

 - 5 The VERITAS Prototype
Scott P. Wakely for the VERITAS Collaboration

 - 6 Status of CANGAROO-III
Ryoji Enomoto et al.

 - 7 Status of the H.E.S.S. Project
Werner Hofmann for the H.E.S.S. Collaboration

14:30–16:30 Convention Hall 300 (1/2 parallels)

OG 2.5

- 8 Status of the MAGIC Telescope
Manel Martinez for the MAGIC Collaboration

- 9 Performance of the VERITAS-4 Array
S. J. Fegan, J. Hall, and V. V. Vassiliev

- 10 Performance of the H.E.S.S. Cameras
Pascal Vincent et al.

- 11 Calibration Results for the First Two H·E·S·S· Array Telescopes
Nicolas Leroy et al.

- 12 Application of an Analysis Method Based on a Semi-Analytical Shower Model to the First H·E·S·S· Telescope
Mathieu de Naurois for the H.E.S.S. Collaboration

- 13 Extending the Cherenkov Technique Down to an Energy Threshold of a Few GeV: The Ultimate Instrument for Ground-Based Gamma-Ray Astronomy
Martin Merck et al.

- 14 High Energy Astrophysics by ASHRA
Naoshi Sugiyama et al.

- 15 High Altitude Gamma Ray Observatory at Hanle
Bannanje Sripathi Acharya et al.

- 16 A New Project to Detect GRBs with $E > 30$ GeV at Mt. Chacaltaya
Fumio Kakimoto for the BASJE Collaboration

- 17 Expected Sensitivity of ARGO-YBJ to Detect Point Gamma-Ray Sources
Silvia Vernetto for the ARGO-YBJ Collaboration

14:30–16:06 Conference Room 202 (2/2 parallels)

OG 3.2

- 1 New Suggested Strategy for Detecting Gravitational Waves
Maher Melek

- 2 Coincident Event Search Using TAMA300 and LISM Data
Hirotaaka Takahashi for the TAMA Collaboration

- 3 Search for Gravitational Waves from Ringing-Down Black Holes
Yoshiki Tsunesada for the TAMA Collaboration

- 4 Progresses of Search for Gravitational Wave Events Using TAMA300 Data
Nobuyuki Kanda for the TAMA Collaboration

- 5 Current Status of TAMA300 Online Search for Inspiring Binaries
Daisuke Tatsumi and Y. Tsunesada

-
- 6 Search for Burst Gravitational Waves Using TAMA300 Data
Masaki Ando for the TAMA Collaboration
-

OG 3.5

- 1 Search for Correlations between GW Detectors and the LVD Neutrino Telescope
Walter Fulgione for the LVD Collaboration
-
- 2 Geophysical Applications of Laser Interferometers: Long-Term Monitoring Crustal Deformations
Vadim C. Milyukov et al.
-

August 6

9:10–10:34 Convention Hall 300

OG 2.1

- 1 Preliminary Evidence for TeV Gamma Ray Emission from the Galactic Plane Using the Milagro Detector
Gus Sinnis for the Milagro Collaboration
-
- 2 Upper Limit on the Diffuse Gamma Ray Flux Using Air Shower Observations at Ooty
Yoshio Hayashi for the GRAPES Collaboration
-
- 3 MHD Simulations of Magnetic Reconnection in the Galaxy: The Origin of Diffuse X-Ray Gas and High Energy Particles
Syuniti Tanuma and K. Shibata
-
- 4 Diffuse Gamma Rays from the Galactic Plane in the TeV Region
Nobuhito Tateyama and J. Nishimura
-
- 5 Galactic Gamma-Ray Halo of the nearby Starburst Galaxy NGC 253
Tatsuo Yoshida et al.
-
- 6 Search for Extremely High Energy Gamma Rays with the KASCADE Experiment
Gerd Schatz for the KASCADE Collaboration
-
- 7 Diffused Gamma-Rays and the Cosmic-Ray Propagation
Toru Shibata et al.
-

14:00–16:00 Convention Hall 300 (1/2 parallels)

OG 2.3

- 1 Observations of 54 Active Galactic Nuclei with the HEGRA Cherenkov Telescopes
Martin Tluczykont for the HEGRA Collaboration
-
- 2 Observations of Active Galactic Nuclei by the Solar Tower Atmospheric Cherenkov Effect Experiment (STACEE)
Corbin E. Covault et al.
-
- 3 Highlights from 6 Years of TeV Gamma-Ray Astrophysics with the HEGRA Imaging Cherenkov Telescopes
Goetz Heinzlmann for the HEGRA Collaboration
-
- 4 Whipple Telescope Observations of Potential TeV Gamma-Ray Sources Found by the Tibet Air Shower Array
Gary P. Walker for the VERITAS Collaboration
-
- 5 First Results from Southern Hemisphere AGN Observations Obtained with the H·E·S·S· VHE Gamma-Ray Telescopes
Arache Djannati-Atai for the H.E.S.S. Collaboration
-
- 6 Monitoring the Northern Sky for Sources of TeV Gamma Rays
Gus Sinnis for the Milagro Collaboration
-
- 7 Intensive TeV Gamma-Ray and X-Ray Observations of the Blazar Mrk 421 in December 2002 and January 2003
Paul Francis Rebillot for the VERITAS Collaboration
-

8 CELESTE Observations of the Crab Nebula and Mkn 421 in 1999-2000 and 2000-2001
Eric Nuss for the CELESTE Collaboration

9 Modeling the IR De-Absorbed γ -Ray Spectra of TeV BL Lacs
Alexander K. Konopelko et al.

10 Study of the VHE Gamma Ray Emission from the AGN 1ES1959+650 with the HEGRA Cherenkov Telescope CT1
Nadia Tonello for the HEGRA Collaboration

14:00–16:00 Conference Room 202 (2/2 parallels)

OG 3.3

1 CLIO Cryogenic Laser Interferometer Observatory
Shinji Miyoki et al.

2 LIGO Detectors and Data Analyses: Current Status and Future Prospects
Erik Katsavounidis for the LIGO Science Collaboration

3 Report on the Observation Run of TAMA300 in the Spring of 2003
Koji Arai for the TAMA Collaboration

4 New AURIGA Cryogenic Suspension System
Michele Giovanni Battista Bignotto for the Auriga Collaboration

5 Current Status of TAMA300
Shuichi Sato for the TAMA Collaboration

6 Gravitational Wave Detection by Laser Interferometry on Earth
Albrecht Ruediger

OG 3.4

1 Mechanical Loss of Reflective Coating at Low Temperature
Kazuhiro Yamamoto et al.

2 Direct Measurement of Scattered Light Effect on the Sensitivity in TAMA300
Ryutaro Takahashi et al.

3 Dual Detector of Gravitational Waves
Livia Conti et al.

4 Development of a Small Vibration Cryocooler for CLIO
Takayuki Tomaru et al.

17:00–19:12 Convention Hall 300

OG 2.3

11 Whipple Observations of 1ES1959+650: An Update
Jamie Holder

12 The Giant Radio Galaxy M 87 as a TeV γ -Ray Emitter Observed with the HEGRA Cherenkov Telescopes
Niels Goetting for the HEGRA Collaboration

13 Observation of M87 with the Whipple 10m Telescope
Stephan L. LeBohec for the VERITAS Collaboration

14 Observations of Starburst Galaxies
Tomoyuki Nagai for the VERITAS Collaboration

15 Observations of H1426+428 from 1999 to 2002 with the Whipple Observatory 10 m Telescope
Deirdre Horan for the VERITAS Collaboration

16 High Energy Emission from H1426+428 and Absorption on the Extragalactic Background Light
Dieter Horns for the HEGRA Collaboration

-
- 17 Intrinsic Spectra of the TeV Blazars Mrk 421 and Mrk 501
Frank Krennrich and Eli Dwek
-
- 18 Absorption of GeV and TeV γ -Rays in M87 and 3C 273
Alina C. Donea
-
- 19 Search for TeV Annihilation Radiation from Supersymmetric Dark Matter in nearby Galaxies
Vladimir V. Vassiliev
-
- 20 Modeling Particle Acceleration in AGN's
Paolo Lipari and Giovanni Morlino
-
- 21 M87 as a Misaligned Synchrotron-Proton Blazar
Anita Reimer, R. J. Protheroe, and A.-C. Donea
-

OG: POSTER Session 1

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

Multi-Purpose Hall

OG 1.1

- 1-P-067 Observation of Atmospheric Antiproton with BESS
Kazuhiro Yamato for the BESS Collaboration
-
- 1-P-068 Detecting ^3H with the BESS Spectrometer
Zachary D. Myers and E. S. Seo
-
- 1-P-069 Search for Cosmic-Ray Antideuteron with the BESS Spectrometer
Hideyuki Fuke for the BESS Collaboration
-
- 1-P-070 Observations of Primary Electrons with an Emulsion Chamber by Automatic Scanning Method
Yoshihiro Sato et al.
-
- 1-P-071 The Proton Spectrum in the 0.1-100 TeV Energy Range Obtained from Direct Measurements of the All-Particle Spectrum
Ekaterina D. Tolstaya and N. L. Grigorov
-
- 1-P-072 The Origin of Galactic Cosmic Ray Protons
Ekaterina D. Tolstaya and N. L. Grigorov
-
- 1-P-073 Atic Experiment: Preliminary Results from the Flight in 2002
Hoseok Ahn for the ATIC-2 Collaboration
-
- 1-P-074 Experience of Application of Silicon Matrix as a Charge Detector in the ATIC Experiment
Victor I. Zatsepin et al.
-
- 1-P-075 Comparison of Measured and Simulated Albedo Signals in the ATIC Experiment
Victor I. Zatsepin et al.
-
- 1-P-076 Heavy Primary Spectrum Obtained by “Jet Trigger” Method
Masakatsu Ichimura for the RUNJOB Collaboration
-
- 1-P-077 The GCR All-Particle Spectrum in the 0.1-100 TeV Energy Range
Ekaterina D. Tolstaya and N. L. Grigorov
-

OG 1.2

- 1-P-078 Acceleration of the Cosmic Rays by Stellar Collapse
Volodymyr Kryvdyk
-
- 1-P-079 Search for an Evidence of Fermi Acceleration for SNR in a Time Dependence of Metal Abundance
Satoko Osone
-

OG 1.3

- 1-P-080 GALPROP: New Developments in CR Propagation Code
Frank C. Jones et al.
-

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- 1-P-081 On Fluctuations of Cosmic Rays in the Galaxy with Random Supernova Outbursts
Eun-Suk Seo et al.
-
- 1-P-082 Cosmic-Ray Propagation and the Energy Spectra Observed on Earth
Makoto Hareyama et al.
-
- 1-P-083 Atmospheric and Galactic Production and Propagation of Light Antimatter Nuclei
Michel J. Buenerd et al.
-
- 1-P-084 The Growth of Parker Instability with the Effect of Cosmic-Ray Diffusion
Takuhito Kuwabara, K. E. Nakamura, and C. M. Ko
-
- 1-P-085 Evaluation of Production Cross Sections of Li, Be, B in CR
Igor V. Moskalenko and S. G. Mashnik
-
- 1-P-086 The Flux of Cosmic-Ray Deuterons in Simplified Propagation Models
Eun-Suk Seo and V. S. Ptuskin
-
- 1-P-087 The Size of Collecting Regions in the Galactic Disk for Proton, Beryllium, Carbon and Iron Cosmic Rays
Antonio Codino and F. Plouin
-
- 1-P-088 First Results of a New Cosmic Ray Propagation Code
Ingo Buesching et al.
-
- 1-P-089 A New Propagation Code for Cosmic Ray Nucleons
Ingo Buesching et al.
-
- 1-P-090 The Local Interstellar Spectrum of Cosmic Ray Electrons
Diego Casadei and V. Bindi
-

OG 1.4

- 1-P-091 The Cosmic Rays and Gamma-Quanta Local Sources Spectra Distinction and Formation of Uniform Cosmic Ray Spectrum
Vera Georgievna Sinitysna and S. I. Nikolsky
-
- 1-P-092 Variational Principle for Fokker-Planck Cosmic Rays Transport Equation
Osman H. Burgoa
-
- 1-P-093 First-Order Fermi Particle Acceleration at Relativistic Shock Waves with a 'Realistic' Magnetic Field Turbulence Model
Jacek Niemiec and M. Ostrowski
-
- 1-P-094 Monte Carlo Simulations of Electron Acceleration in Parallel Relativistic Shocks
Rami O. Vainio and J. Virtanen
-
- 1-P-095 Simulating Particle Acceleration in Modified Shocks Using a New Coarse-Grained Finite Momentum-Volume Scheme
Thomas W. Jones and H. Kang
-
- 1-P-096 Cosmic Ray Acceleration at Quasi-Parallel Plane Shocks
Hyesung Kang and T. W. Jones
-
- 1-P-097 A Plasma Sheet as a Source of Non-Thermal Particles — Relativistic Magnetic Reconnection and Relativistic Drift Kink Instability in e^\pm Plasmas
Seiji Zenitani and M. Hoshino
-
- 1-P-098 Shock Waves and Cosmic Rays in the Large Scale Structure of the Universe
Thomas W. Jones et al.
-

OG 1.5

- 1-P-099 The Secondary Deuterium Spectrum at Small Atmospheric Depths
Elena Vannuccini et al.
-
- 1-P-100 Performance of the PPB-BETS Confirmed by Accelerator Beam Tests
Hisashi Kitamura et al.
-

1-P-101	Shower Difference between Electron and Proton in Simulation and Flight Data Jin Chang for the CALET Collaboration
1-P-102	Cubic Calorimeter for High-Energy Electrons in Ultra-Long Ballooning Alexander A. Moiseev et al.
1-P-103	Atic Experiment: Flight Data Processing Hoseok Ahn for the ATIC-2 Collaboration
1-P-104	Monte Carlo Simulation of the Response of MARIE Victor E. Andersen et al.
1-P-105	Performance Studies of the Anticounter System of the PAMELA Space Experiment Mark Pearce et al.
1-P-106	A Second Level Trigger for PAMELA Mirko Boezio et al.
1-P-107	The ToF and Trigger Electronics of the PAMELA Experiment Giuseppe Osteria et al.
1-P-108	The Time-of-Flight System of the PAMELA Experiment Donatella Campana et al.
1-P-109	The Performance of the AMS-02 TRD Simonetta D. Gentile for the AMS 02/TRD Group
1-P-110	The AMS-02 Time of Flight System. Final Design Diego Casadei et al.
1-P-111	Development of a PMT Readout System with Viking Chips for the SciFi Detector of CALET Tadahisa Tamura et al.
1-P-112	Performance of 64-Multi-Anode Photomultiplier and Scintillating Fiber for the CALET Detector Taro Yamashita for the CALET Collaboration
1-P-113	Development of Total Absorption Calorimeter of CALET Yusaku Katayose for the CALET Collaboration
1-P-114	ELO: The ELection Observatory, an Instrument to Measure High-Energy Cosmic-Ray Electrons Mirko Boezio et al.
1-P-115	Accelerator Tests of the KLEM Prototypes George Bashindzhagyan et al.
1-P-116	Performance of the Scintillator System Prototype of the NUCLEON Space Experiment Leonid G. Tkatchev et al.
1-P-117	The Zero-Degree Detector System James H. Adams, Jr. and E. Kuznetsov
1-P-118	Transition Radiation from Radiators with Varying Periodicity Michael Cherry and G. L. Case
1-P-119	Precise Identification of Heavy Cosmic-Ray Nuclei: The Role of Delta Rays Dietrich Muller et al.
1-P-120	Identification of Iron Isotopes Using CR-39 Track Detector Satoshi Kodaira et al.
1-P-121	Automatic Searching for Fe-Nucleus Vertex Points in Balloon Emulsion Experiment RUNJOB Lyubov G. Sveshnikova for the RUNJOB Collaboration
1-P-122	Dose Equivalent, Absorbed Dose and Charge Spectrum Measurements Made in the International Space Station Orbit Dazhuang Zhou et al.

OG 2.1

- 1-P-123 Predictions for the Magnitude of the Galactic Plane Excess at TeV Gamma Ray Energies
Anatoly D. Erlykin and A. W. Wolfendale
-
- 1-P-124 Gamma-Ray Energy Spectra through Decays of Neutral Pions Produced in Proton-Proton Interactions
Ching-Yuan Huang
-
- 1-P-125 Search for Diffuse Gamma Rays from the Galactic Plane in Multi-TeV Region with the Tibet Air Shower Array
Yoshiaki Yamamoto for the Tibet ASgamma Collaboration
-
- 1-P-126 Evaluation of Models for Diffuse Continuum Gamma Rays in EGRET Range
Olaf Reimer, A. W. Strong, and I. V. Moskalenko
-

OG 2.2

- 1-P-127 TeV Observations of Selected GeV Sources with the HEGRA IACT-System
Gavin Peter Rowell for the HEGRA Collaboration
-
- 1-P-128 Studies of Gamma Radiation above 10^{14} eV from Hadronless Air Shower at Chacaltaya
Rolando Daniel Ticona et al.
-
- 1-P-129 On the Origin of the 'Identified' and 'Unidentified' Gamma Ray Sources
Arnold W. Wolfendale and A. D. Erlykin
-
- 1-P-130 Search for VHE Gamma Ray Emission from SNRs with the Data of Tibet AS $_{\gamma}$ III
Shuwang Cui for the Tibet ASgamma Collaboration
-
- 1-P-131 Chandra ACIS X-Ray Observations of the Cygnus Loop
Denis A. Leahy
-
- 1-P-132 Cosmic Rays and Gamma-Rays from the Pulsar in Cyg OB2
Wlodek Bednarek
-
- 1-P-133 Studies of the Crab Nebula Based upon 400 Hours of Observations with the HEGRA System of Cherenkov Telescopes
Dieter Horns for the HEGRA Collaboration
-
- 1-P-134 Preliminary Results on the Flux of TeV γ -Rays from Crab System Obtained with the PACT at Pachmarhi
Bannanje Sripathi Acharya et al.
-
- 1-P-135 Observation of VHE Gamma Rays from the Remnant of SN 1006 with HEGRA CT1
Nadia Tonello for the HEGRA Collaboration
-
- 1-P-136 Non-Thermal and Supra-Thermal X-Rays from the Northeast Shell of W28
Masaru Ueno, A. Bamba, and K. Koyama
-
- 1-P-137 Observation of Multi-TeV Gamma Rays from the Shell-Like SNR GC40.5-0.5 Using the Tibet Air Shower Array
Jilong Zhang for the Tibet ASgamma Collaboration
-
- 1-P-138 The X-ray Study of Small-Scale Shock Structures in the Non-Thermal SNRs
Aya Bamba et al.
-
- 1-P-139 A Noteworthy Plasma Parameter on the Shock Acceleration/Heating Process
Nobue Shimada and M. Hoshino
-
- 1-P-140 Cosmic Ray Production in the Supernova Remnants with Account of Reacceleration: Secondary to Primary Ratio
Leonid T. Ksenofontov et al.
-
- 1-P-141 Systematic Variation of Cosmic Ray Injection Across Supernova Shocks
Heinrich J. Voelk, E. G. Berezhko, and L. T. Ksenofontov
-
- 1-P-142 Inverse Compton Gamma-Ray Background Due to Supernova Remnants
Evgeny G. Berezhko and H. J. Voelk
-
- 1-P-143 Predicted Sensitivity of the MAGIC Telescope for Gamma Ray Pulsars
Maria Victoria Fonseca for the MAGIC Collaboration
-

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- 1-P-144 Determination of the Night Sky Background around the Crab Pulsar Using Its Optical Pulsation
Emma M. Ona Wilhelmi for the MAGIC Collaboration
-
- 1-P-145 The Effect of Pulsar Timing Noise and Glitches on Timing Analysis for Ground Based Telescopes Observation
Emma M. Ona Wilhelmi for the MAGIC Collaboration
-
- 1-P-146 Detectability of γ -Ray from Millisecond Pulsars with MAGIC
Emma M. Ona Wilhelmi for the MAGIC Collaboration
-
- 1-P-147 X-Ray, Gamma-Ray and Radio Observations of LSI+61 303 and the Nature of the Electron Population and of the Emission Mechanisms
Denis A. Leahy
-
- 1-P-148 Gamma-Rays from the Massive Binary LSI 61^o+303
Agnieszka Sierpowska and W. Bednarek
-
- 1-P-149 Modeling the Pulse Shape of Hercules X-1: Constraints on the Size and Shape of the Accretion Column
Denis A. Leahy
-
- 1-P-150 Investigation of TeV Gamma-Ray Emission from Cygnus X-3
Vera Georgievna Sinitsyna et al.
-
- 1-P-151 Gamma-Rays and Neutrinos from the Pulsar Wind Nebulae
Wlodek Bednarek and M. Bartosik
-
- 1-P-152 Injection of Heavy Nuclei by a Pulsar in the Massive Binary
Marek Bartosik, W. Bednarek, and A. Sierpowska
-
- 1-P-153 TeV Gamma Ray Observations of PSR J1420–6048 with the CANGAROO-II Telescope
Daisuke Nishida for the CANGAROO Collaboration
-
- 1-P-154 Very High Energy Observations of PSR B1823-13
Pat Moriarty for the VERITAS Collaboration
-
- 1-P-155 High Energy Photon Absorption in Hot Stellar Radiation Fields
Anita Reimer
-
- 1-P-156 TeV Observations of the Galactic Center
Paul Francis Rebillot for the VERITAS Collaboration
-
- 1-P-157 γ -Ray Generation in Microquasars: The Link with AGN
Ian James Latham et al.
-
- 1-P-158 Microquasars and Microblazars as Potential Targets of Ground Based Cherenkov Telescopes
Martin Merck for the MAGIC Collaboration
-
- 1-P-159 Observation of Sub-TeV Gamma Rays from SS433/W50 with the CANGAROO-II Telescope
Seiichi Hayashi for the CANGAROO Collaboration
-
- 1-P-160 A Search for Astrophysical Point Sources and a Solar Anisotropy Measurement
Yupeng Xu on behalf of the L3 Collaboration
-
- 1-P-161 Timescale Analysis of Spectral Time Lags
Tipei Li
-

OG: POSTER Session 2

Authors in attendance: August 3, August 5, August 6
16:30–17:30 (August 3, 5), 16:00–17:00 (August 6)

Multi-Purpose Hall

OG 2.3

- 2-P-064 An AGN Observation Catalogue for the MAGIC Cherenkov Telescope
Robert Wagner for the MAGIC Collaboration
-

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- 2-P-065 VHE Observations of BL Lacertae Objects: 1995-2000
Deirdre Horan for the VERITAS Collaboration
-
- 2-P-066 Search for Very High Energy Gamma Rays from an X-Ray Selected Blazar Sample
Jamie Holder
-
- 2-P-067 Search for TeV Emission at the Location of Milagro Sky Survey Hot Spot Using the Whipple Gamma-Ray Telescope
Kenneth Gibbs for the VERITAS Collaboration
-
- 2-P-068 TeV Gamma-Ray Observations of Southern Hemisphere BL Lacertae Objects with CANGAROO-II/III Telescope
Tomokazu Nakase for the CANGAROO Collaboration
-
- 2-P-069 Extra-Galactic Sources 1739+522, 3c454.3, NGC1275, Mkn501, Mkn421 - Spectra and Images
Vera Georgievna Sinitsyna et al.
-
- 2-P-070 Observation of Multi-TeV Gamma Rays from Mrk 421 and Search for Other BL Lac Objects with the Tibet-III Air Shower Array
Kazumasa Kawata for the Tibet ASgamma Collaboration
-
- 2-P-071 Hourly Spectral Variability of Mrk 421
Frank Krennrich for the VERITAS Collaboration
-
- 2-P-073 The Radial Distribution of SNRs in nearby Galaxies
Manami Sasaki and D. Breitschwerdt
-
- 2-P-074 VHE γ -Rays from Extragalactic Large Scale Jets
Lukasz Stawarz, M. Ostrowski, and M. Sikora
-
- 2-P-075 Evolution of Intracluster Cosmic Rays and Gamma-Ray Emission
Shin-ya Tsubaki, Tetsu Kitayama, and Katsuhiko Sato
-
- 2-P-076 Observation of 3EG J1234-1318 with the CANGAROO-II Telescope
Takahiro Hattori for the CANGAROO Collaboration
-
- 2-P-077 Evolution and Properties of the Intracluster Medium in the Presence of Cosmic Ray Sources
Hyesung Kang, D. Ryu, and P. L. Biermann
-
- 2-P-078 A Hadronic Model for Gamma-Ray Loud Quasars
Alina Catalina Donea and R. J. Protheroe
-
- 2-P-079 A New Estimate of the Extragalactic Gamma-Ray Background from EGRET Data
Olaf Reimer, A. W. Strong, and I. V. Moskalenko
-
- OG 2.4**
-
- 2-P-080 The Compton Trail of Gamma-Ray Bursts: Constraints on the Galactic Frequency of GRBs
Etienne Parizot and D. Allard
-
- 2-P-081 General Relativistic MHD Simulations of the Gravitational Collapse of a Rotating Star with Magnetic Field as a Model of Gamma-Ray Bursts
Yosuke Mizuno et al.
-
- 2-P-082 Observations of Gamma-Ray Bursts by HETE-2
Nobuyuki Kawai for the HETE Science Team
-
- 2-P-083 Prompt Gamma-Ray Burst Alert System of the HETE-2 Spacecraft
Toru Tamagawa et al.
-
- 2-P-084 In-Orbit Calibration and Performance of the HETE-2 WXM
Yuji Shirasaki et al.
-
- 2-P-085 Early Optical Afterglow Spectra of GRB021004 by Kiso Observatory
Yuji Urata et al.
-
- 2-P-086 The MAGIC Telescope and the Observation of Gamma Ray Bursts
Denis Bastieri for the MAGIC Collaboration
-

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- 2-P-087 Search for TeV GRBs Using the Tibet-III AS γ Data
Xunxiu Zhou for the Tibet ASgamma Collaboration
-
- 2-P-088 Analysis of Single Particle Rates from the ARGO-YBJ Experiment
Piero Vallania for the ARGO-YBJ Collaboration
-
- 2-P-089 Gamma-Ray Burst Events Observed by SZ2/XD in 2001
Huanyu Wang et al.
-
- OG 2.5**
-
- 2-P-090 Monitor of All-Sky X-Ray Image(MAXI) Mission
Mitsuhiro Kohama et al.
-
- 2-P-091 The Hard X-Ray Modulation Telescope HXMT
Tipei Li et al.
-
- 2-P-092 Radiation Hardness Tests of CsI(Tl) Crystals for the GLAST Electromagnetic Calorimeter
Per Carlson et al.
-
- 2-P-093 Using GHz FADCs to Reject Hadrons from STACEE Data
Jeffrey A. Zweerink for the STACEE Collaboration
-
- 2-P-094 The Technical Performance of the HEGRA IACT System
Gerd Puehlhofer for the HEGRA Collaboration
-
- 2-P-095 The VERITAS Atmospheric Čerenkov Telescopes: Positioner, Optics and Associated Components
Kenneth Gibbs et al.
-
- 2-P-096 The VERITAS Flash ADC Electronics System
Paul Francis Rebillot et al.
-
- 2-P-097 Calibration Systems for the VERITAS Observatory
David B. Kieda et al.
-
- 2-P-098 Signal Cable Selection for the VERITAS Observatory
David B. Kieda et al.
-
- 2-P-099 VERITAS Data Acquisition and Analysis Systems
Scott P. Wakely et al.
-
- 2-P-100 Control Software for the VERITAS Čerenkov Telescope System
Kenneth Gibbs et al.
-
- 2-P-101 VERITAS CFDs
Vladimir V. Vassiliev et al.
-
- 2-P-102 Performance of the Reflector of the CANGAROO-III Imaging Atmospheric Cherenkov Telescope
Michiko Ohishi for the CANGAROO Collaboration
-
- 2-P-103 Performance of the Atmospheric Cherenkov Imaging Camera for the CANGAROO-III Experiment
Shigeto Kabuki for the CANGAROO Collaboration
-
- 2-P-104 Development of the Stereoscopic Data Acquisition System of the CANGAROO-III Telescope
Hidetoshi Kubo for the CANGAROO Collaboration
-
- 2-P-105 Development of Stereoscopic Control System for the CANGAROO-III Telescopes
Seiichi Hayashi for the CANGAROO Collaboration
-
- 2-P-106 Absolute Number Calibration of Photoelectrons of Photomultiplier Tubes Using the Nature of Statistical Distribution
Fumiyoshi Kajino et al.
-
- 2-P-107 Mirror Alignment and Performance of the Optical System of the H.E.S.S. Imaging Atmospheric Cherenkov Telescopes
Rene Cornils for the H.E.S.S. Collaboration
-
- 2-P-108 Atmospheric Monitoring for the H.E.S.S. Project
Roland Le Gallou for the H.E.S.S. Collaboration
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- 2-P-109 Implications of LIDAR Observations at the H.E.S.S. Site in Namibia for Energy Calibration of the Atmospheric Cherenkov Telescopes
Paula M. Chadwick for the H.E.S.S. Collaboration
-
- 2-P-110 The Central Data Acquisition System of the H.E.S.S. Telescope System
Stefan Schlenker for the H.E.S.S. Collaboration
-
- 2-P-111 Arcsecond Level Pointing of the H.E.S.S. Telescopes
Conor P. Masterson for the H.E.S.S. Collaboration
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- 2-P-112 Study of the Performance of a Single Stand-Alone H.E.S.S. Telescope: Monte Carlo Simulations and Data
Alexander K. Konopelko for the H.E.S.S. Collaboration
-
- 2-P-113 Aluminium Mirrors: An Alternative for Ground Based Cherenkov Telescopes
Ian James Latham et al.
-
- 2-P-114 The Reflecting Surface of the MAGIC Telescope
Denis Bastieri for the MAGIC Collaboration
-
- 2-P-115 An Absolute Light Flux Calibration for the MAGIC Telescope
Juan Cortina for the MAGIC Collaboration
-
- 2-P-116 Analogue Signal Transmission by an Optical Fiber System for the Camera of the MAGIC Telescope
David Paneque for the MAGIC Collaboration
-
- 2-P-117 Camera Control and Central Control of the MAGIC Telescope
Juan Cortina for the MAGIC Collaboration
-
- 2-P-118 The Active Mirror Control of the MAGIC Telescope
Razmick Mirzoyan et al.
-
- 2-P-119 The Data Acquisition of the MAGIC Telescope
Florian Goebel for the MAGIC Collaboration
-
- 2-P-120 The Tracking System of the MAGIC Telescope
Robert Wagner for the MAGIC Collaboration
-
- 2-P-121 The MAGIC Analysis and Reconstruction Software
Robert Wagner for the MAGIC Collaboration
-
- 2-P-122 Calibration of the MAGIC Telescope Using Muon Ring Images
Keiichi Mase for the MAGIC Collaboration
-
- 2-P-123 Isolated Muon Study for the MAGIC Telescope
Keiichi Mase for the MAGIC Collaboration
-
- 2-P-124 The Trigger System of the MAGIC Telescope: On-Line Selection Strategies for Cherenkov Telescopes
Antonio Stamerra et al.
-
- 2-P-125 Technical Innovations for the MAGIC Project
Razmick Mirzoyan for the MAGIC Collaboration
-
- 2-P-126 Selection Strategies for Low Energy Events in Imaging Atmospheric Čherenkov Telescopes
Stephen James Gammell et al.
-
- 2-P-127 First Operation of SGARFACE, a Ground Based Experiment to Search for γ -Ray Bursts of Energies Larger than 200MeV with Durations of less than 100 μ s
Stephan L. LeBohec et al.
-
- 2-P-128 A Novel Alternative to UV-Lasers Used in Flat-Fielding VHE γ -Ray Telescopes
Aristeidis Noutsos for the H.E.S.S. Collaboration
-
- 2-P-129 Feasibility of GRB with TeV Gamma Ray All Sky Monitor
Satoko Osone
-
- 2-P-130 Development of High-Resolution and High-Speed Camera System for a Cherenkov Telescope Using Image Intensifiers
Itsuhiro Tada et al.
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- 2-P-131 Optical Observations of the Crab Pulsar Using the First H.E.S.S. Cherenkov Telescope
Conor P. Masterson for the H.E.S.S. Collaboration
-
- 2-P-132 The Diamond Compton Recoil Telescope
Kinya Hibino et al.
-
- 2-P-133 Algorithms for the Determination of the Primary Particle Direction with ARGO-YBJ Detector
Daniele Martello for the ARGO-YBJ Collaboration
-
- 2-P-134 Identification of Showers with Cores Outside the ARGO-YBJ Detector
Giuseppe DiSciascio for the ARGO-YBJ Collaboration
-
- 2-P-135 Performance of the Tibet-III Air Shower Array
Munehiro Ohnishi for the Tibet ASgamma Collaboration
-
- 2-P-136 An New Method to Determine the Arrival Direction of Individual Air Showers with a Single Air Cherenkov Telescope
Daniel Kranich and L. S. Stark
-
- 2-P-137 Maximizing Signal Search Sensitivity Using the Likelihood Ratio as Event Weight
Hongbo Hu
-
- OG 3.1**
-
- 2-P-138 Gravitational Waves in Quintessential Inflation
Hiroyuki Tashiro, T. Chiba, and M. Sasaki
-
- 2-P-139 Graviton Production by a Thermal Bath
Dario Grasso
-
- 2-P-140 One-Armed Spiral Instability in Differentially Rotating Stars
Motoyuki Saijo
-
- OG 3.3**
-
- 2-P-141 Laser Interferometer in the Kamioka Mine
Masatake Ohashi et al.
-
- OG 3.4**
-
- 2-P-142 LCGT Project Observing Gravitational Wave Events at 240 Mpc
Kazuaki Kuroda for the LCGT Collaboration
-
- 2-P-143 Measurement of Outgassing from Multi-Layered Insulators for the Cryogenic Lase Interferometer Observatory
Takashi Uchiyama et al.
-
- 2-P-144 Study of Heat Links for a Cryogenic Laser Interferometric Gravitational Wave Detector
Kunihiko Kasahara et al.
-
- 2-P-145 Thermal Conductance through Sapphire-Sapphire Bonding
Toshikazu Suzuki
-
- 2-P-146 Present Technology for Reduction of Vibration in Cryocooler
Tomiyoshi Haruyama et al.
-
- 2-P-147 RSE Experiment
Kentaro Somiya, P. Beyersdorf, and S. Kawamura
-
- OG 3.5**
-
- 2-P-148 Bondi Mass in Scalar Fields
Ching-Yuan Huang
-
- 2-P-149 Wave Effects in Gravitational Lensing of Gravitational Waves from Chirping Binaries
Ryuichi Takahashi and T. Nakamura
-
- 2-P-150 Gravitational Wave Detection by Laser Interferometry in Space – LISA
Albrecht Ruediger
-

SH: Oral Sessions

SH: Solar & Heliospheric Phenomena

July 31

14:30–16:18 Convention Hall 200

SH 1.2

- 1 Impulsive Flare Material: A Seed Population for Large Solar Particle Events?
R. A. Mewaldt et al.

 - 2 A Statistical Study of ^3He Enhancement in the High-Energy Solar Particles
Jarno Laivola, J. Torsti, and L. Kocharov

 - 3 The Solar Cycle Variability of Solar Energetic Particle Composition
R. A. Leske et al.

 - 4 Modelling Energy-Dependent Fe/O Ratios Observed above 12 MeV/Nucleon
C. M. S. Cohen et al.

 - 5 The ^3He -Rich SEP Events of August 2002: Exceptional Elemental and Isotopic Composition Patterns at Energies above 10 MeV/Nucleon
M. E. Wiedenbeck et al.

 - 6 Light Isotope Abundances in Solar Energetic Particles Measured by the NINA-2 Instrument
Vladimir V. Mikhailov for the NINA-WIZARD Collaboration

 - 7 High Energy Ionic Charge State Composition in Recent Large Solar Energetic Particle Events
Allan Wayne Labrador et al.

 - 8 Strong Energy Dependence of Ionic Charge States in Impulsive Solar Events
Eberhard Moebius et al.

 - 9 On the Energy Dependence of Ionic Charge States
Berndt Klecker et al.
-

August 1

9:10–10:34 Convention Hall 200

SH 1.1

- 1 What We Know and Do Not Know about High Energy Neutral Emissions from Solar Flares (A Challenge for Future Missions)
Edward Lowell Chupp et al.

 - 2 Solar Neutron Event in Association with the 24 September 2001 Flare
Takashi Sako et al.

 - 3 Solar Neutron Event in Association with a Large Solar Flare on August 25, 2001
Kyoko Watanabe et al.

 - 4 Gamma and X-Ray Solar Flare Emissions: CORONAS-F Measurements
Karel Kudela et al.

 - 5 Solar Gamma-Ray Lines at High Resolution with *RHESSI*
Ronald J. Murphy et al.

 - 6 Energetics of Nonthermal Electrons and Protons in Intense Solar Flares
Masato Yoshimori, H. Hirayama, and S. Mori
-

-
- 7 Physical Implications of *RHESSI* Neutron Capture-Line Measurements
Ronald J. Murphy et al.
-

14:30–16:18 Convention Hall 200

SH 1.1 —————

- 8 *RHESSI* Observation of the Solar Annihilation Line
Ronald J. Murphy et al.
-

- 9 First Gamma-Ray Images of a Solar Flare
Robert P. Lin et al.
-

SH 1.3 —————

- 1 Solar Fast Wind Regions as Sources of Gradual 20 MeV Solar Energetic Particle Events
Stephen W. Kahler
-

- 2 Onsets and Release Times in Solar Particle Events
Allan J. Tylka et al.
-

- 3 Energy Dispersion in Solar Ion Events over 4 Orders of Magnitude: SOHO/COSTEP and Wind/STICS
Horst W. Kunow and A. Posner
-

- 4 Efficiency for RSP Acceleration in the 14.07.2000 and 15.04.2001 Events
Jorge A. Perez-Peraza et al.
-

- 5 Coronal Shocks and Solar Energetic Proton Events
Edward W. Cliver, S. W. Kahler, and D. V. Reames
-

- 6 Solar Energetic Particle Acceleration in Refracting Coronal Blast Waves
Rami O. Vainio and J. I. Khan
-

- 7 Solar Energetic Particle Driven Alfvén Wave Growth and Consequences
Chee K. Ng, D. V. Reames, and A. J. Tylka
-

17:30–19:18 Convention Hall 200

SH 1.3 —————

- 8 Some Astrophysical Aspects in the Studies of Solar Cosmic Rays
Leonty I. Miroshnichenko
-

- 9 A Microwave Imaging Observation of an Electron Stream in a Solar Flare by Nobeyama Radioheliograph
Takaaki Yokoyama et al.
-

- 10 Source Regions of Major Solar Energetic Particle Events
Nariaki V. Nitta et al.
-

SH 1.4 —————

- 1 Further Fine Time Resolution Analysis of the Bastille Day 2000 GLE
Marc Duldig, D. J. Bombardieri, and J. E. Humble
-

- 2 Search for a Muon Flux Enhancement during the Solar Flare of 14 July 2000 with the L3+C Data
Yuqian Ma on behalf of the L3 Collaboration
-

- 3 Spaceship Earth Observations of the Easter GLE
John W. Bieber et al.
-

- 4 Relativistic Solar Proton Dynamics in Large GLE of 23rd Solar Cycle
Eduard V. Vashenyuk, B. B. Balabin, and B. B. Gvozdevsky
-

- 5 Search for Muons in Association with Large Solar Flares with the GRAPES-3 Multidirectional Muon Telescope at Ooty
Saburo Kawakami for the GRAPES Collaboration
-

-
- 6 A Search for the 200 GeV Muon Intensity Bursts during Powerful Solar Flares of 23rd Solar Cycle
Sergei N. Karpov et al.
-

August 2

9:10–10:34 Convention Hall 200

SH 2.3 (previous SH 2.3+SH 2.4+SH 2.6)

- 1 Particle Acceleration at Fluid Compressions and What That Teaches Us about Shock Acceleration
Kittipat Malakit et al.

 - 2 Finite-Time Shock Acceleration
David J. Ruffolo and Chanruangrith Channok

 - 3 Diffusive Compression Acceleration of Charged Particles
Jack R. Jokipii, J. Giacalone, and J. Kota

 - 4 Energetic Electrons Associated with Transient Interplanetary Shocks: Evidence for Weak Interaction
George C. Ho et al.

 - 5 Electron Heating Process at Quasi-Perpendicular Shocks
Tooru Sugiyama et al.

 - 6 Pitch Angle Diffusion of Energetic Particles by Large Amplitude MHD Waves
Tohru Hada et al.

 - 7 Probing the Turbulent Solar Wind with Cosmic Rays
Curt A. de Koning and John W. Bieber
-

11:05–12:41 Convention Hall 200

SH 2.1

- 1 Calculation of Type III Radio Emission from a Particle Transport Model
Paul A. Evenson

 - 2 Perpendicular Diffusion and Drift of Solar Energetic Particles in Heliospheric Magnetic Fields
Ming Zhang, J. R. Jokipii, and R. B. McKibben

 - 3 Conditional Statistics of Magnetic Turbulence and the Lateral Transport of Solar Energetic Particles
Piyanate Chuychai, D. Ruffolo, and W. H. Matthaeus

 - 4 Some Statistical Properties of the Decay Phase of SEP-Events
Karoly Kecskemeti et al.

 - 5 The Observational Aspects of the Three Largest Solar-Energetic Particle Fluxes: 19-20/10/1989, 14/7/2000 and 9/11/2000
Mohamed Ali El-Borie and S. S. Al-Thoyaib

 - 6 Spatial Distribution of Energetic Heavy Ions and Its Time Structure in the Radiation Belt
Daisuke Miki et al.

 - 7 Interacting and Escaping 100 MeV Solar Protons Observed on 11 and 15 June 1991
Alexei Struminsky

 - 8 Action on Cosmic Rays on Latent Energy of the Atmosphere
Vladislav E. Timofeev et al.
-

14:30–16:30 Convention Hall 200

SH 3.2

- 1 Cosmic Rays and the Global Heliospheric Magnetic Field: Meridional Motion of Footpoints
Jozsef Kota and J. R. Jokipii

 - 2 Heliospheric Solar Wind Turbulence Model with Implications for Latitudinal Transport of Cosmic Rays
Shyamsundar Parhi et al.
-

-
- 3 A Simple Model of Cosmic Ray Modulation in the Heliosphere
G. F. Krymsky, P. A. Krivoschapkin, and S. K. Gerasimova

 - 4 Long-Term Cosmic Ray Modulation by Heliospheric Parameters: Non-linear Relations
Ilya G. Usoskin et al.

 - 5 Cosmic Ray Drifts at Solar Maximum
Marius S. Potgieter and B. Heber

 - 6 Direct Evidence of Energy-Loss in Electron-Capture-Decay Secondary Isotopes in the Heliosphere
Lauren M. Scott et al.

 - 7 Heliospheric Modulation Potential from SOHO/EPHIN Observations of Protons
Raul Gomez-Herrero et al.

 - 8 Modeling a Few-MeV Jovian and Galactic Electron Spectra in the Inner Heliosphere
Vance K. Henize, S. E. S. Ferreira, and M. S. Potgieter

 - 9 Modulation of Cosmic Rays at and beyond the Heliospheric Termination Shock
Marius S. Potgieter and W. R. Webber

 - 10 Radial Intensity Profiles of Galactic Cosmic Rays in the Outer Heliosphere
Harm Moraal, R. A. Caballero-Lopez, and F. B. McDonald

17:30–18:54 Convention Hall 200

SH 3.2 —————

- 11 Radial Intensity Gradients and Diffusion Coefficients of Cosmic Rays in the Outer Heliosphere at Solar Maximum
Zenjiro Fujii et al.

- 12 Local Reacceleration of Galactic Cosmic Rays at the Heliosphere's Termination Shock
Frank B. McDonald et al.

- 13 Modulation of Galactic Cosmic Rays near and beyond the Termination Shock
Ming Zhang and Bryan Ball

- 14 Galactic Cosmic-Ray Interactions with the Outer Heliosphere: A Self-Consistent Approach
Vladimir Florinski and G. P. Zank

SH 1.5 (previous SH 1.6+SH 2.7+SH 3.7) —————

- 1 A New Solar Neutron Telescope in Mexico
Jose F. Valdes-Galicia et al.

- 2 Super Solar Neutron Telescope for the Next Solar Maximum
Takashi Sako et al.

- 3 First Results of a Mobile Neutron Monitor to Intercalibrate the Worldwide Network
Harm Moraal et al.

August 3

9:10–10:34 Convention Hall 200

SH 2.2 (previous SH 2.2+SH 1.5) —————

- 1 Coronal and Interplanetary Environment of Large Solar Energetic Particle Events
Nat Gopalswamy, S. Yashiro, and R. A. Howard

- 2 Possible Cosmic Ray Using for Forecasting of Major Geomagnetic Storms, Accompanied by Forbush-Effects
Lev A. Pustil'nik et al.

- 3 A Global Structure of the Magnetic Flux Rope Observed in Interplanetary Space Fitted by a Torus-Type Force-Free Model
Akifumi Ihara et al.

-
- 4 CME Geometry Deduced from Cosmic Ray Anisotropy
Kazuoki Munakata et al.
 - 5 Observation of Precursory Decrease by the Narrow Angle Muon Telescope at MT. Norikura
Kazuhiko Fujimoto et al.
 - 6 Study of Cosmic Ray Short Term Variations Using GRAPES-3 Muon Telescopes
Toshiyuki Nonaka for the GRAPES Collaboration
 - 7 Directional Variation of 5 GeV Muon Flux Observed in the Underground Muon Telescope
Jacek Szabelski et al.
-

14:30–16:18 Convention Hall 200

SH 2.2 (previous SH 2.2+SH 1.5) —————

- 8 Cosmic Ray Intensity Variations Observed by Environmental Radiation Monitors
Stefano Cecchini et al.
 - 9 Interplanetary Magnetic Field Disturbances with Particularly High Cosmic Ray Modulation Efficiency
Erwin Fluckiger et al.
 - 10 Modeling and Experimental Study of Forbush Effects of Galactic Cosmic Rays
Michael V. Alania, J. Szabelski, and A. Wawrzynczak
 - 11 Cosmic Ray Variability around the Geomagnetic Disturbances
Karel Kudela and M. Storini
 - 12 Distribution of Solar Flares around the Sun and Their Association with Forbush Decreases
Pankaj K. Shrivastava
 - 13 Study of Forbush Decrease Event and Associated Geomagnetic Field Variation during Space Radiation Storm
Subhash Chandra Kaushik and Sujeet Kumar Mishra
 - 14 Time Determination of March 1991's CME Hitting Magnetosphere
Y. Q. Tang et al.
 - 15 Large-Scale Heliospheric Magnetic Field and Drift Effects during Forbush Decrease
Yatendra Pal Singh and Badruddin
 - 16 Geomagnetic Cutoff Variation Observed with TIBET Neutron Monitor
Hiromasa Miyasaka et al.
-

17:30–19:54 Convention Hall 200

SH 3.4 (previous SH 3.5) —————

- 1 Cosmic Ray Electron and Positron Observations during the A⁻ Magnetic Polarity
John Mason Clem and P. A. Evenson
 - 2 Solar Modulation Effect on the Cosmic-Ray Proton Spectra Measured by BESS
Yoshiaki Shikaze for the BESS Collaboration
 - 3 Atypical Cosmic Ray Propagation during the qA>0 Sunspot Minimum of 1954
Ken McCracken, J. Beer, and F. B. McDonald
 - 4 Understanding Cosmic Ray Solar Modulation for Cycle 20
H. S. Ahluwalia and Margaret D. Wilson
 - 5 Long-Term Cosmic Ray Intensities: Physical Reconstruction
Ilya G. Usoskin et al.
 - 6 GCR Flux Decline during the Last Three Centuries: Extra-Terrestrial and Terrestrial Evidences
Giuliana Cini Castagnoli et al.
 - 7 Evaluation of Gnevyshev Gap Effects on Cosmic Ray Modulation
Marisa Storini, M. Laurenza, and Z. Fujii
-

8 Long Term Cosmic Ray Variations in Association with Solar Magnetic Flux
Jose F. Valdes-Galicia, A. Lara, and B. Mendoza

9 The Solar Cycle and Energetic Particle Streaming Patterns in and around the Terrestrial Magnetosphere
Peter Kiraly

10 Sun Shadow in the Solar Activity Cycle 23 Observed with the Tibet Air Shower Array
Masaki Nishizawa for the Tibet ASgamma Collaboration

11 The Cosmic Ray Shadows of the Moon and the Sun Detected by the Milagro Gamma Ray Observatory
Gus Sinnis for the Milagro Collaboration

August 5

9:10–10:34 Convention Hall 200

SH 3.3 (previous SH 3.3+SH 3.4)

1 The Approach of Voyager 1 to the Termination Shock
E. C. Stone and A. C. Cummings

2 Sustained Energetic Particle Intensity Enhancements at Voyager 1 Beginning in 2002
Matthew E. Hill et al.

3 Voyager Observations of Anomalous Cosmic Ray Gradients and the Role of Diffusion and Drifts in the Outer Heliosphere
A. C. Cummings and E. C. Stone

4 Effective Energy of Neutron Monitors
Katja Maria Alanko et al.

5 Galactic Cosmic Ray Fluctuations: Long-Term Modulation of Power Spectrum
Ilya G. Usoskin and S. Starodubtsev

6 Galactic Anisotropy of Multi-TeV Cosmic-Ray Intensity Observed by the Tibet III Air Shower Array
Shigeharu Udo for the Tibet ASgamma Collaboration

7 Observation of Anisotropy of Cosmic Rays with Solar Time Using the Multidirectional Muon Telescope of GRAPES-3 Shower Array
Hiroshi Kojima for the GRAPES Collaboration

14:30–15:54 Convention Hall 200

SH 3.3 (previous SH 3.3+SH 3.4)

8 Variation of Cosmic Ray Intensity with Angular Distance from Earth to the Current Sheet
Badruddin and Y. P. Singh

9 Effect of Interplanetary Turbulences Causing Unusual Behaviour in CR Intensity
M. L. Chauhan et al.

10 Study of High/Low Amplitude Wave Trains in CR Intensity and Associated Solar Features
Sushil Kumar Dubey et al.

11 Effect of Solar Heliospheric Parameters on Different Components of Daily Variation in Cosmic Ray Intensity
Rekha Agarwal Mishra and Rajesh K. Mishra

12 Long Term Behavior of Higher Harmonics of Cosmic Ray Intensity on Quiet Days
Mahendra Kumar Richharia, B. K. Kathal, and S. K. Dubey

13 Energetic Particle Intensity Increases at Voyagers 1 and 2 during 2002–03
Robert Blair Decker et al.

14 Angular Distributions and Energy Spectra of Energetic Particles Observed by Voyager 1 at 85-88 AU
Robert Blair Decker et al.

August 6

9:10–10:10 Convention Hall 200

SH 3.1 (previous SH 3.1+SH 2.6)

- 1 Modulation of Anomalous Protons with Increasing Solar Activity
Marius S. Potgieter and U. W. Langner

 - 2 Anomalous Cosmic Rays at a Termination-Shock Crossing
Jack R. Jokipii and J. Giacalone

 - 3 Heliospheric Termination Shock Mediation by Anomalous Cosmic Rays: Insights from Recent Voyager Data
Vladimir Florinski et al.

 - 4 Unusual Enhancements of MeV Ions and Electrons as Voyager 1 Approaches the Heliospheric Termination Shock
Frank B. McDonald et al.

 - 5 Voyager 1 Observations of the Anisotropies of Enhanced MeV Ion Fluxes at 85 AU
A. C. Cummings et al.
-

14:00–16:00 Convention Hall 200

SH 3.5 (previous SH 3.5+SH 3.6)

- 1 Properties of the Long Term Heliospheric Modulation - Tests to Be Met by Modulation Theory
Juerg Beer, K. G. McCracken, and F. B. McDonald

 - 2 The Accuracy of Cosmogenic ¹⁰Be as a Quantitative Measurement of the GCR
Ken McCracken

 - 3 Manifestations of Influence of Solar Activity and Cosmic Ray Intensity on the Wheat Price in the Medieval England (1259–1703 Years)
Lev A. Pustil'nik, L. I. Dorman, and G. Yom Din

 - 4 Measurements of C-14 Concentration for 22 Single-Year Tree Rings of an Old Cedar ca. 2500 Years Ago
Hirohisa Sakurai et al.

 - 5 Variation of the Radiocarbon Content of Tree Rings during the Spoerer Minimum
Hiroko Miyahara et al.

 - 6 Radiocarbon Content in Japanese Cedar during the Maunder Minimum
Hiroko Miyahara et al.
-

SH 3.6

- 1 Cosmic Rays in the Mechanism of Thundercloud Production
Yuri Ivanovich Stozhkov and V. I. Ermakov

 - 2 Light Flashes Observations on Board Mir and ISS with Sileye Experiments
Marco Casolino for the Sileye Collaboration

 - 3 Effect of Disturbed Electric Field of the Atmosphere on Cosmic Rays: 1. Soft Component
Aleksandr S. Lidvansky et al.

 - 4 Effect of Disturbed Electric Field of the Atmosphere on Cosmic Rays: 2. Hard Component
Aleksandr S. Lidvansky, N. S. Khaerdinov, and V. B. Petkov
-

17:00–19:00 Convention Hall 200

SH 3.6

- 5 Acceleration below Thunder Clouds at Mount Norikura
Yasushi Muraki et al.
-

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- 6 Estimation of the Radioactivity Level Induced by Airborne Radio-Nuclide Rainout Episodes
Stefano Cecchini et al.
-
- 7 The Effect of Variable Directions of Viewing on the Interpretation of Diurnal Variations Observed by Neutron Monitors
John E. Humble and M. L. Duldig
-
- 8 Geomagnetic Cutoff Rigidity Calculations at 50-Year Intervals between 1600 and 2000
Don Frederick Smart and M. A. Shea
-
- 9 Preliminary Study of the 400-Year Geomagnetic Cutoff Rigidity Changes, Cosmic Rays and Possible Climate Changes
Margaret Ann Shea and D. F. Smart
-
- 10 The Long-Term Variation of Galactic Cosmic Ray Flux and Its Possible Connection with the Current Trend of the Global Warming
Kunitomo Sakurai
-
- 11 The Relation between Malfunctions of Satellites at Different Orbits and Cosmic Ray Variations
Lev I. Dorman et al.
-
- 12 Seasonal Variations in ^7Be Radioactivity Measured at Ground Level
Masato Yoshimori et al.
-
- 13 Daily Variation of Cosmogenic Nuclide Be-7 Concentration in the Atmosphere and Solar Activities
Hirohisa Sakurai et al.
-
- 14 The Seasonal Dependency of the NO(Y) Impulsive Precipitation Events in Arctic Polar Ice
Margaret Ann Shea et al.
-

SH: POSTER Session 1

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

Multi-Purpose Hall

SH 1.1

- 1-P-163 RHESSI Discovery of a Coronal Non-Thermal Hard X-Ray Source in the 23 July 2002 Gamma-Ray Line Flare
Robert P. Lin et al.
-
- 1-P-164 Simultaneous Observations of Solar Neutrons in Association with a Large Solar Flare on June 6, 1991
Kyoko Watanabe et al.
-
- 1-P-165 GEANT Applications for the Interpretation of Ground-Based Solar Neutron Observations
Erwin O. Flueckiger et al.
-
- 1-P-166 Time Profile of the 2.223 MeV Gamma-Line Emission and Some Features of the 16 December 1988 Solar Event
Leonty I. Miroshnichenko et al.
-
- 1-P-167 Solar Gamma Ray Events Detected by the GEOTAIL Plasma Instrument
Yasuhiro Takei et al.
-

SH 1.2

- 1-P-168 The Unusual Solar Particle Events of August 2002
R. A. Leske et al.
-
- 1-P-169 ^3He -Rich SEP Events Detected by EPHIN 1996-2000
Raul Gomez-Herrero et al.
-
- 1-P-170 Possible Detection of Large Solar Particle Event at Balloon Altitudes during the 2001-2002 TIGER Flight
Sven Geier et al.
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- 1-P-171 Solar Energetic Particles Events Observed with EIS Onboard NOZOMI Spacecraft
Hiromasa Miyasaka et al.
-
- 1-P-172 Suprathermal Ion and Solar Wind Charge States: A Comparison
Berndt Klecker et al.
-
- 1-P-173 Observation of Energy-Dependent Charge States in Solar Energetic Particle Events
Mark A. Popecki et al.
-
- 1-P-174 Iron Charge State Distributions in Large Gradual Solar Energetic Particle Events
Mark A. Popecki et al.
-
- 1-P-175 Time-to-Maximum Studies and Inferred Ionic Charge States in the Solar Energetic Particle Events of 14 and 15 April 2001
Allan J. Tylka and W. F. Dietrich
-
- 1-P-176 Ionic Charge States of High Energy Solar Energetic Particles in Large Events
E. C. Stone et al.
-
- 1-P-177 Heavy Ion and Electron Release Times in Solar Particle Events
R. A. Mewaldt et al.
-

SH 1.3

- 1-P-178 Prolonged Release of 100 MeV Solar Protons in the GLE Events of 1997-2002
Alexei Struminsky
-
- 1-P-179 High-Energy Cutoff for Solar Cosmic Rays by the Data of Large Non-Standard Detectors
Leonty I. Miroshnichenko
-
- 1-P-180 Solar Energetic Particle Spectra Produced by Shocks in Solar Corona
Evgeny G. Berezhko and S. N. Taneev
-
- 1-P-181 Monte-Carlo Simulation of Particle Acceleration in Impulsive Phase of Solar Flares
Tsuguya Naito
-
- 1-P-182 MHD Simulations of the Internal Shocks in Magnetic Reconnection Jet in the Solar Flare: Possibility of the Particle Acceleration
Syuniti Tanuma and K. Shibata
-
- 1-P-183 Evolution of Flare Ribbons and Energy Release
Ayumi Asai et al.
-
- 1-P-184 The Spatially Resolved Spectrum Analysis of Gradual Hardening Flare
Hiroyuki Takasaki et al.
-
- 1-P-185 Two-Stage Coronal Transport of Solar Flare Particles from Magnetic Multipolarity Sources in a Flare Region
Guiming Le and Yongnian Huan
-
- 1-P-186 Magnetohydrodynamic Numerical Simulations of Coronal Mass Ejections and Associated Giant Arcades
Daikou Shiota et al.
-
- 1-P-187 Estimation of the SONTRAC Detector Efficiency for Solar Flare Neutrons by Geant4 Monte Carlo Simulations
Laurent Desorgher et al.
-

SH 1.4

- 1-P-188 Dangerous FEP Events: Real-Time Data of Ground and Satellite CR Measurements Using for Monitoring of Beginning and Forecasting of Expected Particle Fluxes in Atmosphere and in Space
Lev A. Pustil'nik et al.
-
- 1-P-189 Onsets of Solar Cycle 23 Ground Level Events as Probes of Solar Energetic Particle Injections at the Sun
Stephen W. Kahler, G. M. Simnett, and M. J. Reiner
-
- 1-P-190 On Accuracy of Solar Cosmic Ray Anisotropy and Intensity Deduced from NM Data
Alexei Struminsky
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- 1-P-191 A Study of the Ground Level Event of April 15, 2001 with GRAND
Christopher P. D’Andrea and J. Poirier
-
- 1-P-192 GLE Observations in 23rd Solar Cycle at the Baksan Air Shower Arrays Andyrchy and Carpet
Sergei N. Karpov et al.
-

SH 1.5

- 1-P-193 A New Solar Neutron Telescope at Mt. Aragats
Yasushi Muraki et al.
-
- 1-P-194 Application of CPLD for the Mexico Solar Neutron Telescope
Takashi Sako, Y. Muraki, and N. Hirano
-
- 1-P-195 Calibration of the Sanae and Hermanus Neutron Monitors
Harm Moraal et al.
-
- 1-P-196 Yield and Response Functions of the Baksan EAS-Array Andyrchy for Single Component
Sergei N. Karpov et al.
-
- 1-P-197 Design of a Recording System for a Muon Telescope Using FPGA and VHDL
Shin-ichi Yasue et al.
-
- 1-P-198 The Development of the High Energy Particle Detector Onboard the SELENE Spacecraft
Takeshi Takashima et al.
-
- 1-P-199 Heavy Ion Telescope Onboard the “TSUBASA” Satellite
Nobuyuki Hasebe et al.
-
- 1-P-200 REal-time COsmic Ray Database (RECORD)
Ilya Usoskin et al.
-
- 1-P-201 Solar Particle Events Observation Capabilities of PAMELA Experiment
Marco Casolino for the Pamela Collaboration
-
- 1-P-202 Evaluation of Magnetic Shielding of Interplanetary Spacecraft from Cosmic Radiation
Don Frederick Smart and M. A. Shea
-
- 1-P-203 ADAMO, an Altazimuthal Detector for Atmospheric Cosmic-Ray Observation
Elena Vannuccini et al.
-

SH 2.1

- 1-P-204 Large Solar Proton Events in Association with Large Solar Flares from January 1996 to May 2001
Mohamed Ali El-Borie
-
- 1-P-205 Major Solar-Energetic Particles and the Associated GLEs
Mohamed Ali El-Borie
-
- 1-P-206 Acceleration and Transport of Solar Energetic Particles: Modeling CME Driven Shocks
Jozsef Kota et al.
-
- 1-P-207 Spatial Intensity Gradients of Impulsive Particle Events and Supradiffusive Magnetic Fields
Stephen W. Kahler and B. R. Ragot
-
- 1-P-208 The Second Order Pitch-Angle Approximation for the Cosmic Ray Fokker-Planck Kinetic Equations
Lev I. Dorman, B. A. Shakhov, and M. Stehlik
-
- 1-P-209 Energetic Particle Mean Free Path in the Wave Heated Solar Wind
Rami O. Vainio et al.
-
- 1-P-210 Energetic Particle Observations by the Cassini Spacecraft during Its Heliospheric Cruise to Saturn
David Lario et al.
-

SH 2.2

- 1-P-211 Dynamics of the Cosmic Ray Current Behaviour during Large-Scale Solar Wind Disturbances
Vladislav G. Grigoryev et al.
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- 1-P-212 Solar Cycle 23 Activity Forecast: A Look Back
H. S. Ahluwalia
-
- 1-P-213 Dynamics of Solar Energetic Particles in the Presence of a Shock Wave
Vladislav E. Timofeev et al.
-
- 1-P-214 The Technique of Forbush Decrease Registration in Tomography Mode
Anatoly Afanasievich Petrukhin et al.
-
- 1-P-215 CME Types, Their Interplanetary Manifestations (ICMEs) and Effects on Cosmic Ray Intensity
Badruddin and Y. P. Singh
-
- 1-P-216 Effect of Halo Coronal Mass Ejections on Cosmic Ray Intensity during Ascending Phase of Solar Cycle 23
Pankaj K. Shrivastava
-
- 1-P-217 Statistical Procedure to Test Significance in the Analysis of Cosmic Ray Data by Superposed Epoch Method–I
Badruddin and Y. P. Singh
-
- 1-P-218 Statistical Procedure to Test Significance in the Analysis of Cosmic Ray Data by Superposed Epoch Method–II
Yatendra Pal Singh and Badruddin
-
- 1-P-219 Statistical Procedure to Test Significance in the Analysis of Cosmic Ray Data by Superposed Epoch Method–III: Comparison of Test Results from Two Techniques
Yatendra Pal Singh and Badruddin
-
- 1-P-220 Analysis of Tibet NM Data with Wavelet Transform Method
Y. Q. Tang for the Tibet NM Collaboration
-
- 1-P-221 Solar and Interplanetary Disturbances Causing Moderate Geomagnetic Storms
Mahendra Pratap Yadav and Santosh Kumar
-
- 1-P-222 Interplanetary Transients Causing Moderately Severe Geomagnetic Storms
Mahendra Pratap Yadav, Santosh Kumar, and Rajesh K. Mishra
-
- 1-P-223 Geoeffectiveness of Solar Features
Santosh Kumar and Mahendra Pratap Yadav
-
- 1-P-224 Origin, Development, and Effects of Coronal Mass Ejections (CMEs): Report from the 2nd International CME Workshop at Elmau Castle, Germany, in February 2003
Horst W. Kunow
-
- SH 2.3**
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- 1-P-225 The ‘Proton-Assisted’ Generation Process of Whistler Waves at Interplanetary Shocks
Toshio Terasawa et al.
-
- 1-P-226 Particle Acceleration at Coronal Mass Ejection-Driven Shock Waves: Modeling of Enhancement in Low-Energy Range of a Proton Flux
Mitsue Den, T. Yoshida, and K. Yamashita
-
- 1-P-227 Acceleration at the Earth’s Bow Shock: Spatial Dependence of Acceleration Efficiency
Toshio Terasawa, Y. Saito, and T. Mukai
-
- 1-P-228 Observations of the Particle-Field Correlation
Curt A. de Koning and John W. Bieber
-
- 1-P-229 Investigation of the Anomalous Diffusion Coefficients of Different Transport Regimes
Zoltan Nemeth
-
- 1-P-230 The Connection of 1AU Electron Data to Perpendicular Diffusion
Olaf Reimer et al.
-
- 1-P-231 The Relation of Variations of Solar and Galactic Cosmic Ray Fluxes with Parameters of Interplanetary Medium under Quiet Solar Conditions
Karoly Kecskemety, Yu. I. Logachev, and M. A. Zeldovich
-

1-P-232 High Speed Solar Wind Streams and Cosmic Ray Intensity Variation
Pankaj K. Shrivastava

1-P-233 Interplanetary Transient Plasma Signatures and Associated Cosmic Ray Intensity Variation
Subhash Chandra Kaushik

1-P-234 1.7 Year Quasi-Periodicity in Cosmic Ray Intensity Variation
Chihiro Kato et al.

1-P-235 Wavelet Analysis of 27-Day Variation in Cosmic Ray Intensities Observed at Beijing Neutron Monitor
Y. Q. Tang et al.

SH: POSTER Session 2

Authors in attendance: August 3, August 5, August 6

16:30–17:30 (August 3, 5), 16:00–17:00 (August 6)

Multi-Purpose Hall

SH 3.1

2-P-153 Particles Acceleration at Solar Wind Termination Shock
Leonid T. Ksenofontov and E. G. Berezhko

2-P-154 Voyager 1 Observations of the Composition of Enhanced MeV Ion Fluxes at 85 AU
E. C. Stone and A. C. Cummings

2-P-155 On the Possible Detection of the Outer Heliospheric Boundary Signatures in Accelerated Ions Seen by Voyager 1 Beginning From July 2002
Karoly Kecskemety et al.

SH 3.2

2-P-156 Solar Modulation of Galactic Electrons and Their Diffusion Coefficient in the Heliosphere
Yoshiko Komori

2-P-157 A 2D Stochastic Simulation of Galactic Cosmic Rays Transport in the Heliosphere
Katja Maria Alanko et al.

2-P-158 Expected Relative Role of Convection-Diffusion and Drift Mechanisms in Long-Term Variation for Small Cosmic Ray Energies
Lev I. Dorman et al.

2-P-159 Effect of Cross-Helicity on the Ab Initio Formulation of Solar Modulation of Cosmic Rays
Shyamsundar Parhi et al.

2-P-160 Cosmic Ray Transport beyond the Termination Shock: Modulation in the Heliosheath
Jozsef Kota and J. R. Jokipii

2-P-161 Validity of the Force-Field Equation to Describe Cosmic Ray Modulation
Rogelio Antonio Caballero-Lopez, H. Moraal, and C. D. Steenberg

2-P-162 The Numerical Description of Neutral Sheet Drift Effects
Rogelio Antonio Caballero-Lopez and H. Moraal

2-P-163 Real Distribution of the Coronal Green Line Intensity and Modelling Study of Galactic Cosmic Ray Propagation
Michael V. Alania et al.

2-P-164 On the Relationship of the Energy Spectrum Indexes of the 11-Year Variation of Galactic Cosmic Rays and the Interplanetary Magnetic Field Strength Fluctuations
Michael V. Alania, K. Iskra, and M. Siluszyk

SH 3.3

2-P-165 Test of the GG Index to Infer the IMF Polarities
Marisa Storini et al.

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- 2-P-166 Anomalous ^4He Observation with EPHIN on Board SOHO during 1996 and 1997
Raul Gomez-Herrero et al.
-
- 2-P-167 Studies on Cosmic Ray Sidereal Anisotropy with the Multidirectional Muon Telescope at Ooty
Hiroshi Kojima et al.
-
- 2-P-168 Galactic Anisotropy of $\sim 10\text{TeV}$ Cosmic-Ray Intensity Observed by the Tibet Air Shower Array
Kazuoki Munakata for the Tibet ASgamma Collaboration
-
- 2-P-169 Quasi-Local and Non-Local Intensity Gradients of Anomalous Cosmic Rays
Matthew E. Hill and D. C. Hamilton
-
- 2-P-170 Diurnal Wave Trains during Two Recent Consecutive Solar Cycle
Anil Kumar Tiwari
-
- 2-P-171 Study of Higher Harmonics of Cosmic Ray Intensity on Quiet Days at Tokyo Station
Mahendra Kumar Richharia, B. K. Kathal, and S. K. Dubey
-
- 2-P-172 Study of High/Low Amplitude Anisotropic Wave Train Events during 1991–94
Santosh Kumar, Rajesh K. Mishra, and Rekha Agarwal Mishra
-
- 2-P-173 Variation of the High-Energy Cosmic Ray Anisotropy with a Solar Activity Cycle
Velikanida P. Mamrukova et al.
-
- 2-P-174 Unusually Low Amplitude Anisotropic Wave Train Events of Cosmic Ray Intensity during 1981–94
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