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## 35th International Cosmic Ray Conference

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ICRC2017 - (other **icrc** conferences)

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10-20 July, 2017  
Bexco, Busan, Korea

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ICRC is a biennial international conference in the field of Astroparticle Physics. It covers: cosmic-ray physics, solar and heliospheric physics, gamma-ray astronomy, neutrino astronomy, and dark matter physics.

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# 35th International Cosmic Ray Conference

# ICRC2017

## The Astroparticle Physics Conference

**12 - 20 July, 2017**  
**BEXCO, BUSAN, KOREA**

### Sessions

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Invited Review Talks

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Rapporteur Talks

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High-light Talks

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Session Solar & Heliospheric. SH-Heliospheric transport and solar modulation

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Session Solar & Heliospheric. SH-Instrumentation

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Session Solar & Heliospheric. SH-Outer heliosphere

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Session Solar & Heliospheric. SH-Terrestrial effects

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Session Solar & Heliospheric. SH-Transient solar phenomena (SEP, GLE, Forbush decreases)

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Session Solar & Heliospheric. SH-non sub category

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Session Cosmic-Ray Direct. CRD- direct measurements

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Session Cosmic-Ray Direct. CRD- hadronic interactions/EAS development

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Session Cosmic-Ray Direct. CRD- instrumentation direct

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Session Cosmic-Ray Direct. CRD- theory

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Session Cosmic-Ray Indirect. CRI- hadronic interactions/EAS development

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Session Cosmic-Ray Indirect. CRI-instrumentation EAS

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Session Cosmic-Ray Indirect. CRI-properties of CRs at high energies (anisotropy, energy, mass)

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Session Cosmic-Ray Indirect. CRI- theory

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Session Gamma-Ray Astronomy. GA-extra-galactic

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Session Gamma-Ray Astronomy. GA-galactic

Session Gamma-Ray Astronomy. GA-instrumentation

Session Gamma-Ray Astronomy. GA-theory

Session Dark Matter. DM-direct searches and production

Session Dark Matter. DM-indirect searches

Session Dark Matter. DM-instrumentation

Session Dark Matter. DM-theory

Session Neutrino. NU-astrophysical neutrinos

Session Neutrino. NU-atmospheric neutrinos and neutrino properties

Session Neutrino. NU-instrumentation

Session Neutrino. NU-theory

## Invited Review Talks

### Gravitational Waves

PoS(ICRC2017)1079 *B.C. Barish*

### Exploring the large-scale structures of the heliosphere with observations of TeV cosmic-ray anisotropy and energetic neutral atom emission

PoS(ICRC2017)1080 *M. Zhang*

### Galactic Cosmic Rays - Theory and Interpretation

PoS(ICRC2017)1081 **pdf** *L.D. Mria*

### UHECR sources and transport

PoS(ICRC2017)1082 *A. Taylor*

### High-Energy Multimessenger observations including transient sources

PoS(ICRC2017)1083 *E. Resconi*

### Neutrino physics: from oscillations to sterile neutrinos

PoS(ICRC2017)1084 *T. Kajita*

### Overview of DM searches

PoS(ICRC2017)1085 **pdf** *Y. Kim*

### Accretion onto Black Holes

PoS(ICRC2017)1086 **pdf** *M.G. Park*

### Particle and Astroparticle Physics at LHC

PoS(ICRC2017)1087 *A. Roeck*

## Rapporteur Talks

### Solar-Heliospheric Physics

PoS(ICRC2017)1113 **pdf** *D. Ruffolo*

### Cosmic Ray - Direct

PoS(ICRC2017)1114 *M. Casolino*

### Cosmic Ray - Indirect

PoS(ICRC2017)1115 *D. Capriori*

### Status of ground based gamma-ray observations

PoS(ICRC2017)1116 **pdf** *N. Park*

### ICRC Rapporteur: Space Based Gamma-ray Astronomy

PoS(ICRC2017)1117 **pdf** *J.S. Perkins*

### Neutrino astrophysics at ICRC 2017

PoS(ICRC2017)1118 **pdf** *M. Ackermann*

### Status of Dark Matter Searches (Rapporteur Talk)

PoS(ICRC2017)1119 **pdf** *C. Rott*

## High-light Talks

### Particle Acceleration in the Sun and Beyond

PoS(ICRC2017)1088 **pdf** *J. Lee*

### Recent Results from the Cosmic Ray Isotope Spectrometer on NASA's Advanced Composition Explorer

PoS(ICRC2017)1089 **pdf** *M.E. Wiedenbeck, W.R. Binns, M.H. Israel, R.A. Leske, E.R. Christian, C.M.S. Cohen, A.C. Cummings, A.J. Davis, G.A. de Nolfo, A.W. Labrador, K.A. Lave, R.A. Mewaldt, E.C. Stone and T.T. von Rosenvinge*

### Solar modulation, Forbush decreases and Solar Energetic Particles with AMS

PoS(ICRC2017)1090 *V. Bindi*

### The PAMELA Experiment: A Cosmic Ray Experiment Deep Inside the Heliosphere

PoS(ICRC2017)1091 **pdf** *M. Boezio, R. Munini, O. Adriani, G.C. Barbarino, G.A. Bazilevskaya, R. Bellotti, E.A. Bogomolov, M. Bongi, G. Bonvicini, S. Bottai, A. Bruno, F. Cafagna, D. Campana, P. Carlson, M. Casolino, G. Castellini, C. De Santis, V. Di Felice, A.M. Galper, A.V. Karelin, S.V. Koldashov, S. Koldobskiy, S.Y. Krutkov, A.N. Kvashnin, A. Leonov, V. Malakhov, L. Marcelli, M. Martucci, A.G. Mayorov, W. Menn, M. Merge', V.V. Mikhailov, E. Mocchiutti, A. Monaco, N. Mori, G. Osteria, B. Panico, P. Papini, M. Pearce, P. Picozza, M. Ricci, S.B.*

Ricciarini, M. Simon, R. Sparvoli, P. Spillantini, Y.I. Stozhkov, A. Vacchi, E. Vannuccini, G. Vasilyev, S.A. Voronov, Y.T. Yurkin, G. Zampa and N. Zampa

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**The CALorimetric Electron Telescope (CALET) on the ISS: Preliminary Results from On-orbit Observations since October, 2015**

PoS(ICRC2017)1092 [pdf](#) S. Tori and on behalf of the CALET Collaboration

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**AMS Results on the Properties of the Fluxes of Elementary Particles and Nuclei in Primary Cosmic Rays**

PoS(ICRC2017)1093 [pdf](#) A. Kounine

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**Primary and secondary cosmic rays in the NUCLEON space experiment after two years of data acquisition**

PoS(ICRC2017)1094 [pdf](#) A. Panov, E. Atkin, N. Gorbunov, V. Grebenyuk, D. Karmanov, I. Kovalev, I. Kudryashov, A. Kurganov, M. Merkin, D. Podorozhny, S. Porokhovoy, V. Shumikhin, A. Tkachenko, L. Tkachev, A. Turundaevskiy, O. Vasiliev and A. Voronin

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**The first results from DAMPE**

PoS(ICRC2017)1095 J. Chang

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**Highlights from the Telescope Array Experiment**

PoS(ICRC2017)1096 [pdf](#) J. Matthews and On behalf of the Telescope Array collaboration

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**EUSO-SPB1 Mission and Science**

PoS(ICRC2017)1097 [pdf](#) L. Wiencke, A. Olinto and on behalf of the JEM-EUSO Collaboration

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**Ultra-high energy cosmic ray detector TUS: preliminary results of the first year of measurements**

PoS(ICRC2017)1098 [pdf](#) P. Klimov and on behalf of the Lomonosov-UHECR/TLE Collaboration

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**Status of the LHCf experiment**

PoS(ICRC2017)1099 [pdf](#) H. Menjo, O. Adriani, E. Berti, L. Bonechi, M. Bonghi, G. Castellini, R. D'Alessandro, M. Haguenaue, Y. Itow, K. Kasahara, K. Masuda, Y. Matsubara, Y. Muraki, P. Papini, S.B. Ricciarini, T. Sako, N. Sakurai, K. Sato, Y. Shimizu, M. Shinoda, T. Suzuki, T. Tamura, A. Tiberio, S. Torii, A. Tricomi, M. Ueno, K. Yoshida, Q. Zhou, K. Ohashi and B. Turner

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**Air Shower Simulation with a New Generation of post-LHC Hadronic Interaction Models in CORSIKA**

PoS(ICRC2017)1100 [pdf](#) T. Pierog

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**Cosmic Rays in the Large-Scale Structure of the Universe**

PoS(ICRC2017)1101 D. Ryu

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**Highlights from the Pierre Auger Observatory**

PoS(ICRC2017)1102 [pdf](#) M. Unger and on behalf of the Pierre Auger Collaboration

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**The Gamma-ray Sky Above 10 GeV (the 3FHL catalog)**

PoS(ICRC2017)1103 A. Dominguez

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**Gamma-ray emission from Pulsars and their environment**

PoS(ICRC2017)1104 R. Zanin

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**Gamma-ray Emission from Supernova Remnants**

PoS(ICRC2017)1105 T. Brandt

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**Transients: Gamma-ray observations and multi-messenger links**

PoS(ICRC2017)1106 F. Schüssler

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**The Extragalactic Background Light: Constraints from TeV Blazar Observations**

PoS(ICRC2017)1107 [pdf](#) E. Pueschel

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**The Fermi Bubbles from Stochastic Acceleration by Turbulence in a Galactic Outflow**

PoS(ICRC2017)1108 [pdf](#) P. Mertsch and V. Petrosian

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**Highlights from the ANTARES neutrino telescope & status of KM3NeT**

PoS(ICRC2017)1109 A. Heijboer

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**Highlights from IceCube and prospects for IceCube-Gen2**

PoS(ICRC2017)1110 J. van Santen

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**Ultra-high energy neutrinos: status and prospects**

PoS(ICRC2017)1111 [pdf](#) J. Alvarez-Muniz

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**First Light from the XENON1T Dark Matter Experiment**

PoS(ICRC2017)1112 E. Aprile

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**Session Solar & Heliospheric. SH-Heliospheric transport and solar modulation**

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**Empirical model of galactic cosmic ray particle fluxes based on the experimental data in solar cycles 21–24**

PoS(ICRC2017)001 [pdf](#) N. Kuznetsov, E. Popova, M. Panasyuk and M. Podzolk

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**On the relationship between cosmic rays detected by the KACST muon detector and solar wind speed and sunspot number**

PoS(ICRC2017)005 [pdf](#) A. Maghrabi and H.M. Al Dajani

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**Diffusion of cosmic rays in heliosphere, observations from GRAPES-3**

PoS(ICRC2017)011 [pdf](#) A. Kollamparambil Paul, S.K. Gupta, S.R. Dugad, B. Hariharan, Y. Hayashi, P. Jagadeesan, A. Jain, S. Kawakami, H. Kojima, P.K. Mohanty, S.D. Morris, P.K. Nayak, A. Oshima, B.S. Rao, S. Shibata and P. Subramanian

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**Ten years of positron and electron solar modulation measured by the PAMELA experiment.**

PoS(ICRC2017)012 [pdf](#) R. Munini, M. Boezio, M. Potgieter, V. Di Felice, O. Adriani, G.C. Barbarino, G.A. Bazilevskaya, R. Bellotti, E.A. Bogomolov, M. Bonghi, G. Bonvicini, S. Bottai, A. Bruno, F. Cafagna, D. Campana, M. Casolino, G. Castellini, C.d. Santis, A.M. Galper, A.V. Karelin, S.V. Koldashov, S.Y. Krutkov, A.N. Kvashnin, A. Leonov, V. Malakhov, L. Marcelli, M. Martucci, A.G. Mayorov, W. Menn, M. Merge', V.V. Mikhailov, E. Mocchiutti, A. Monaco, N. Mori, G. Osteria, B. Panico, P. Papini, M. Pearce, P. Picozza, M. Ricci, S.B. Ricciarini, M. Simon, R. Sparvoli, P. Spillantini, Y.I. Stozhkov, A. Vacchi, E. Vannuccini, G. Vasilyev, S.A. Voronov, Y.T. Yurkin, G. Zampa, N. Zampa, M.S. Potgieter and J.L. Raath

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**Modeling Cosmic Ray Anisotropies at High-energy End of Solar Modulation**

PoS(ICRC2017)015 [pdf](#) J. Kota, M. Kozai and K. Munakata

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**Capabilities and Performance of the High-Energy Energetic-Particles Instrument for the Parker Solar Probe Mission**  
PoS(ICRC2017)016 [pdf](#) M.E. Wiedenbeck, N.G. Angold, B. Birdwell, J.A. Burnham, E.R. Christian, C.M.S. Cohen, W.R. Cook, A.C. Cummings, A.D. Davis, G. Dirks, D.H. Do, D.T. Everett, P.A. Goodwin, J.J. Hanley, L. Hernandez, B. Kecman, J. Klemic, A.W. Labrador, R.A. Leske, S. Lopez, J.T. Link, D.J. McComas, R.A. Mewaldt, H. Miyasaka, B.W. Nahory, J.S. Rankin, G. Riggans, B. Rodriguez, M.D. Rusert, S.A. Shuman, K.M. Simms, E.C. Stone, T.T. von Roseninge, S.E. Weidner and M.L. White

**The charge-sign dependence in the solar modulation during the solar cycle 23**  
PoS(ICRC2017)018 [pdf](#) S. Miyake

**Long-term variations of vector and tensor anisotropies of cosmic rays**  
PoS(ICRC2017)021 [pdf](#) P.Y. Gololobov, G. Krymsky and P. Krivoschapkin

**Behavior of zonal components of CR distribution during periods of solar wind disturbances**  
PoS(ICRC2017)022 [pdf](#) P.Y. Gololobov, V. Grigoryev and S. Starodubtsev

**Cosmic-ray transport in the heliosphere with HELIOPROP**  
PoS(ICRC2017)024 [pdf](#) A. Vittino, C. Evoli and D. Gaggero

**Tracking cosmic-ray spectral variations with neutron monitor time-delay measurements at high cutoff rigidity during 2007-2017**  
PoS(ICRC2017)025 [pdf](#) C. Banglieng, D. Ruffolo, A. Sáiz, P. Evenson and T. Nutaro

**Solar magnetic field strength and the “Sun's Shadow”**  
PoS(ICRC2017)028 [pdf](#) Y. Nakamura, The Tibet ASgamma Collaboration, M. Amenomori, X.J. Bi, D. Chen, T.L. Chen, W.Y. Chen, S.W. Cui, Danzengluobu, L.K. Ding, C.F. Feng, Z. Feng, Z.Y. Feng, Q.B. Gou, Y.Q. Guo, H.H. He, Z.T. He, K. Hibino, N. Hotta, H. Hu, H.B. Hu, J. Huang, H.Y. Jia, L. Jiang, F. Kajino, K. Kasahara, Y. Katayose, C. Kato, K. Kawata, M. Kozai, L. Na, G.M. Le, A.F. Li, H.J. Li, W.J. Li, C. Liu, J.S. Liu, M.Y. Liu, H. Lu, X.R. Meng, T. Miyazaki, K. Mizutani, K. Munakata, T. Nakajima, Y. Nakamura, H. Nanjo, M. Nishizawa, T. Niwa, M. Ohnishi, I. Ohta, S. Ozawa, X.L. Qian, X.B. Qu, T. Saito, T.Y. Saito, M. Sakata, T. Sasaki, J. Shao, M. Shibata, A. Shiomi, T. Shirai, H. Sugimoto, M. Takita, Y.H. Tan, N. Tateyama, S. Torii, H. Tsuchiya, S. Udo, H. Wang, H.R. Wu, L. Xue, Y. Yamamoto, K. Yamauchi, Z. Yang, A.F. Yuan, T. Yuda, L.M. Zhai, H.M. Zhang, J.L. Zhang, X.Y. Zhang, Y. Zhang, Y. Zhang, Z. Na and X.X. Zhou

**Hale cycle in solar-rotation related recurrence of galactic cosmic rays**  
PoS(ICRC2017)029 [pdf](#) A. Gil and K. Mursula

**$\alpha$ - $\omega$  effect and recurrent changes of galactic cosmic rays intensity**  
PoS(ICRC2017)030 [pdf](#) A. Gil and M. Alania

**Interplanetary Coronal Mass Ejection and the Sun's Shadow Observed by the Tibet Air Shower Array**  
PoS(ICRC2017)031 [pdf](#) K. Kawata, The Tibet ASgamma Collaboration, M. Amenomori, X.J. Bi, D. Chen, T.L. Chen, W.Y. Chen, S.W. Cui, Danzengluobu, L.K. Ding, C.F. Feng, Z. Feng, Z.Y. Feng, Q.B. Gou, Y.Q. Guo, H.H. He, Z.T. He, K. Hibino, N. Hotta, H. Hu, H.B. Hu, J. Huang, H.Y. Jia, L. Jiang, F. Kajino, K. Kasahara, Y. Katayose, C. Kato, K. Kawata, M. Kozai, L. Na, G.M. Le, A.F. Li, H.J. Li, W.J. Li, C. Liu, J.S. Liu, M.Y. Liu, H. Lu, X.R. Meng, T. Miyazaki, K. Mizutani, K. Munakata, T. Nakajima, Y. Nakamura, H. Nanjo, M. Nishizawa, T. Niwa, M. Ohnishi, I. Ohta, S. Ozawa, X.L. Qian, X.B. Qu, T. Saito, T.Y. Saito, M. Sakata, T.K. Sako, J. Shao, M. Shibata, A. Shiomi, T. Shirai, H. Sugimoto, M. Takita, Y.H. Tan, N. Tateyama, S. Torii, H. Tsuchiya, S. Udo, H. Wang, H.R. Wu, L. Xue, Y. Yamamoto, K. Yamauchi, Z. Yang, A.F. Yuan, T. Yuda, L.M. Zhai, H.M. Zhang, J.L. Zhang, X.Y. Zhang, Y. Zhang, Z. Yi, Y. Zhang, Z. Na and X.X. Zhou

**Heliospheric modulation of galactic cosmic rays: Effective energy of ground-based detectors**  
PoS(ICRC2017)032 [pdf](#) A. Gil, E. Asvestari, G. Kovaltsov and I. Usoskin

**Cosmic Ray Modulation Observed by the Princess Sirindhorn Neutron Monitor at High Rigidity Cutoff**  
PoS(ICRC2017)036 [pdf](#) P.S. Mangeard, J. Clem, P. Evenson, R. Pyle, W. Mitthumsiri, D. Ruffolo, A. Sáiz and T. Nutaro

**Charge-sign dependent modulation of cosmic ray electrons and positrons up to extreme solar maximum conditions**  
PoS(ICRC2017)039 [pdf](#) J.L. Raath and M. Potgieter

**Measurement of the Solar Magnetic Field effect on cosmic rays using the Sun shadow observed by the ARGO-YBJ experiment**  
PoS(ICRC2017)041 [pdf](#) S. Chen, Y. Nan and on behalf of the ARGO-YBJ Collaboration

**The combined modulation of Jovian and Galactic electrons in the heliosphere**  
PoS(ICRC2017)043 [pdf](#) M. Potgieter and R. Nndanganeni

**Solar modulation of cosmic ray positrons in a very quiet heliosphere**  
PoS(ICRC2017)044 [pdf](#) M. Potgieter, E. Vos, D. Bisschoff, J.L. Raath, M. Boezio, R. Munini and V. Di Felice

## Session Solar & Heliospheric. SH-Instrumentation

**Estimation of long-term stability of detectors of the world neutron monitor network for the whole monitoring period**  
PoS(ICRC2017)046 [pdf](#) L. Dorman, A. Belov, R. Gushchina, E. Eroshenko, M. Preobrazhensky and V. Yanke

**Measurement of cross-counter leader fractions in an 18NM64: Detecting single and multiple atmospheric secondaries**  
PoS(ICRC2017)047 [pdf](#) A. Sáiz, W. Mitthumsiri, D. Ruffolo, P. Evenson and T. Nutaro

**SIDR Experiment status and first results**  
PoS(ICRC2017)050 [pdf](#) G. Bashindzhagyan, V. Barnes, E. Fischbach, G. Hovsepyan, N. Korotkova, L. Poghosyan and N. Sinev

**Current status of SciCRT experiment and its expected future performance**  
PoS(ICRC2017)051 [pdf](#) M.A. Anzorena Méndez, J.F. Valdés-Galicia, R. García Gínez, Y. Matsubara, Y. Sasai, T. Kawabata, E. Ortiz, L.X. González, O. Musalem, A. Hurtado, M. Barrantes, R. Taylor, Y. Itow, T. Sako, A. Tsuchiya, K. Munakata, C. Kato, Y. Nakamura, T. Oshima, T. Koike, S. Shibata, A. Oshima, H. Takamaru, H. Kojima, H. Tsuchiya, K. Watanabe, M. Kozai and T. Koi

**Development of a pattern recognition algorithm for particle identification on the SciCRT in the Sierra Negra Volcano Summit**  
PoS(ICRC2017)052 [pdf](#) R. García Gínez, J.F. Valdés-Galicia, M.A. Anzorena Méndez, E. Ortiz, L.X. González, O. Musalem, A. Hurtado, M. Barrantes, R. Taylor, Y. Sasai, Y. Itow, T. Sako, T. Kawabata, A. Tsuchiya, K. Munakata, C. Kato, Y. Nakamura, T. Oshima, T. Koike, S. Shibata, A. Oshima, H. Takamaru, H. Kojima, H. Tsuchiya, K. Watanabe, M. Kozai and T. Koi

**Development of faster front end electronics for the SciCRT detector at Sierra Negra, Mexico**  
PoS(ICRC2017)053 [pdf](#) M.A. Anzorena Méndez, J.F. Valdés-Galicia, R. García Gínez, Y. Matsubara, Y. Sasai, T. Kawabata, E. Ortiz, L.X. González, O. Musalem, A. Hurtado, M. Barrantes, R. Taylor, Y. Itow, T. Sako, A. Tsuchiya, K. Munakata, C. Kato, Y. Nakamura, T. Oshima, T. Koike, S. Shibata, A. Oshima, H. Takamaru, H. Kojima, H. Tsuchiya, K. Watanabe, M. Kozai and T. Koi

**New, affordable, open-hardware neutron monitor electronics**  
PoS(ICRC2017)054 [pdf](#) P. Kruger, H. Krueger, H. Krueger, C. Diedericks and D. Malan

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## Session Solar & Heliospheric. SH-Outer heliosphere

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### The Anisotropy of Anomalous Cosmic Rays Observed by Voyager 2 in the Heliosheath

PoS(ICRC2017)057 [pdf](#) E. Stone, A.C. Cummings, B.C. Heikkilä, N. Lal and W.R. Webber

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### Acceleration of galactic electrons at the solar wind termination shock and Voyager 1 observations

PoS(ICRC2017)058 [pdf](#) M. Potgieter, P.L. Prinsloo and R.d.T. Strauss

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## Session Solar & Heliospheric. SH-Terrestrial effects

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### The Effect of Some Meteorological Parameters on the Cosmic Ray Muons detected by KACST detector

PoS(ICRC2017)062 [pdf](#) A. Maghrabi and A.F. Aldosary

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### Search for the tritium nuclei in Earth re-entrant albedo radiation with the PAMELA experiment

PoS(ICRC2017)063 [pdf](#) S. Koldobskiy and V. Mikhailov

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### The secular variations of cosmic ray cutoff rigidities, caused by century variations in geomagnetic field, and cosmic ray variations

PoS(ICRC2017)067 [pdf](#) L. Dorman, B. Gvozdevsky, A. Belov, R. Gushchina, E. Eroshenko, M. Preobrazhensky and V. Yanke

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### Study of solar transients causing GMSs with Dst $\leq$ -100nT during the period 1999-2010

PoS(ICRC2017)069 [pdf](#) K. Rajiv, N.K. Pandey and G. Singh

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### Observation of cosmogenic nuclide Be-7 concentrations in the air at Bangkok and trajectory analysis of global air-mass motion

PoS(ICRC2017)070 [pdf](#) S. Suzuki, H. Sakurai, F. Tokanai, E. Inui, S. Hirofumi, K. Masuda, W. Mitthumsiri, D. Ruffolo, R. Macatangay, S. Kikuchi and Y. Kurebayashi

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### Spatial and energy distributions of high energy electron bursts caused by precipitations from the inner radiation belt

PoS(ICRC2017)072 [pdf](#) S. Aleksandrin, A. Galper, S. Koldashov, V. Mikhailov and T. Zharaspayev

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### Long term ionization effect during several GLE events of solar cycle 23 - comparative analysis

PoS(ICRC2017)074 [pdf](#) P. Velinov and A. Mishev

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### Cosmic ray ionization effect in the atmosphere during the maximal GLE05 – on 23.02.1956

PoS(ICRC2017)075 [pdf](#) P. Velinov, Y. Balabin and E. Mauricev

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### Subauroral mesopause temperature response to solar activity in 1999-2013

PoS(ICRC2017)076 [pdf](#) A. Ammosova, G. Gavrilyeva, P. Ammosov and I. Koltovskoi

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### The influence of geomagnetic activity on the subauroral mesopause temperature over Yakutia

PoS(ICRC2017)077 [pdf](#) A. Ammosova, A. Anastasiia, G. Galina, A. Petr and K. Igor

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### Effect of field-aligned beam on upstream wave excitation and particle scattering in the earth's foreshock: One-dimensional PIC simulation

PoS(ICRC2017)078 [pdf](#) F. Otsuka, S. Matsukiyo and T. Hada

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### Updated model CRAC:HEPII of atmospheric ionization due to high energy protons

PoS(ICRC2017)079 [pdf](#) A. Mishev, A. Artamonov, G. Kovalstov and I. Usoskin

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### HAWC response to atmospheric electricity activity

PoS(ICRC2017)080 [pdf](#) A. Lara, G. Binimelis de Raga, O. Enriquez-Rivera and on behalf of the HAWC Collaboration

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### Correlation between Cosmic Ray muons and atmospheric temperature in the lower stratosphere

PoS(ICRC2017)081 [pdf](#) A. Maghrabi and M.M. Al Mutairi

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### Application of a Coupled Harmonic Oscillator Model to Solar Activity and El Niño Phenomena

PoS(ICRC2017)084 [pdf](#) [attachments](#) Y. Muraki

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### The Characteristics of Global Shallow-Source Seismicities Associated with Solar Activities in Different Time Scales

PoS(ICRC2017)085 [pdf](#) X.X. Yu, C.L. Jin and Z.H. An

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### Computation of electron precipitation atmospheric ionization: updated model CRAC-EPII

PoS(ICRC2017)086 [pdf](#) A. Mishev, A. Artamonov, G. Kovalstov, I. Mironova and I. Usoskin

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## Session Solar & Heliospheric. SH-Transient solar phenomena (SEP, GLE, Forbush decreases)

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### PAMELA measurements of solar energetic particle spectra

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#### Camera of the first TAIGA-IACT: construction and calibration

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#### Performance of a small size telescope (SST-1M) camera for gamma-ray astronomy with the Cherenkov Telescope Array

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#### TAIGA-HiSCORE: results from the first two operation seasons

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#### TAIGA - a hybrid detector complex for high energy gamma-ray astro-physics and cosmic ray physics in the Tunka valley

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### Single Photon Extraction for FACT's SiPMs allows for Novel IACT Event Representation

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### ASTRI SST-2M prototype and mini-array simulation chain, data reduction software, and archive in the framework of the Cherenkov Telescope Array

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### MAGIC sensitivity to millisecond-duration optical pulses

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### A Trigger Interface Board to manage trigger and timing signals in CTA Large-Sized Telescope and Medium-Sized Telescope camera

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### Prototype 9.7m Schwarzschild-Couder telescope for the Cherenkov Telescope Array: status of the optical system.

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### The KM3NeT acoustic positioning system

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