arXiv:1111.0879v2 [astro-ph.HE] 8 Nov 2011

MAGIC contributions to the 32nd International Cosmic Ray Conference

- Overview and highlight papers
- Instrument, software and techniques
- Scientific results
  - Galactic sources
  - Extragalactic sources
  - Multi-wavelength and joint campaigns
  - Fundamental physics, dark matter, cosmic rays

Overview and highlight papers

arXiv:1110.4747 [pdf, ps, other]
Title: Highlights of the MAGIC Telescopes
Authors: Juan Cortina for the MAGIC Collaboration
Comments: 10 pages, 11 figures, proceedings of the 32nd International Cosmic Ray Conference (Beijing)
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE); Instrumentation and Methods for Astrophysics (astro-ph.IM)

arXiv:1109.5860 [pdf]
Title: Overview of the results from extra-galactic observations with the MAGIC telescopes
Authors: Karsten Berger (1, 2), for the MAGIC Collaboration ((1) Instituto de Astrofísica de Canarias, (2) Universidad de La Laguna)
Comments: 4 pages, 8 figures, proceeding for the 32nd International Conference on Cosmic Rays (ICRC), Beijing, August 11-18, 2011
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE)

Instrument, software and techniques

arXiv:1110.0947 [pdf, ps, other]
Title: Performance of the MAGIC Stereo System
Authors: E. Carmona, J. Sitarek, P. Colin, M. Doert, S. Klepser, S. Lombardi, M. Lo Pez, A. Moralejo, S. Pardo, V. Scalzotto, R. Zanin, for the Magic Collaboration
Comments: In Proceedings of the 32nd International Cosmic Ray Conference
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE)

arXiv:1109.6195 [pdf, ps, other]
Title: Advanced stereoscopic gamma-ray shower analysis with the MAGIC telescopes
Authors: S. Lombardi, K. Berger, P. Colin, A. Diago Ortega, S. Klepser, for the MAGIC Collaboration
Comments: 4 pages, 3 figures, contribution to the 32nd International Cosmic Ray Conference, Beijing, China, August 2011
Subjects: Instrumentation and Methods for Astrophysics (astro-ph.IM)

arXiv:1109.6099 [pdf, ps, other]
Title: Field test of the hybrid photodetector R9792U-40 on the MAGIC camera
Authors: T.Y. Saito, S. Sun, R. Orito, E. Lorenz, R. Mirzoyan, M. Teshima, M. Garczarczyk, for the MAGIC Collaboration
Comments: Contribution to the 32nd ICRC, Beijing, China, August 2011
Subjects: Instrumentation and Methods for Astrophysics (astro-ph.IM)

arXiv:1111.1299 [pdf, ps, other]
Title: New improved Sum-Trigger system for the MAGIC telescopes
Authors: Dennis Haefner, Thomas Schweizer, Francesco Dazzi, Daniele Corti, for the MAGIC collaboration
Comments: 4 pages, 7 figures, contribution to the 32nd International Cosmic Ray Conference, Beijing, China, August 2011
Subjects: Instrumentation and Methods for Astrophysics (astro-ph.IM)

Galactic sources

arXiv:1110.2987 [pdf, ps, other]
Title: MAGIC measurement of the Crab Nebula spectrum over three decades in energy
Authors: Roberta Zanin, Daniel Mazin, Emiliano Carmona, Pierre Colin, Juan Cortina, Tobias Jogler, Stefan Klepser, Abelardo Moralejo, Julian Sitarek for the MAGIC collaboration, Dieter Horns, M. Meyer
Comments: 4 pages, 6 figures, contribution to the 32nd International Cosmic Ray Conference, Beijing, China, August 2011
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE)

arXiv:1109.6100 [pdf, ps, other]
Title: Observations of the Crab pulsar with the MAGIC telescopes
Authors: T.Y. Saito, M. López, G. Giavitto, S. Klepser, T. Schweizer, R. Zanin, for the MAGIC collaboration
Comments: Contribution to the 32nd ICRC, Beijing, China, August 2011
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE)

arXiv:1110.1682 [pdf, ps, other]
Title: MAGIC detection of the putative gamma-ray binary HESS J0632+057
Authors: T. Jogler, P. Munar-Adrover, M. Ribó, J. M. Paredes for the MAGIC collaboration
Comments: 4 pages, In Proceedings of the 32nd International Cosmic Ray Conference (Beijing)
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE)

arXiv:1110.1681 [pdf, ps, other]
Title: Detection of LS I +61 303 in a low VHE gamma-ray emission state with the MAGIC telescopes
Authors: T. Jogler, O. Blanch for the MAGIC collaboration
Comments: 4 pages, 2 figures, In Proceedings of the 32nd International Cosmic Ray Conference (Beijing)
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE)

arXiv:1110.1581 [pdf, ps, other]
Title: Search for VHE signals from microquarsars with MAGIC
Authors: Roberta Zanin, Takayuki Sayto, Victor Zabalza, Pol Bordas, Tobias Jogler, Juan Cortina, Josep Maria Paredes, Marc Ribó, Javier Rico for the MAGIC collaboration

Comments: 4 pages, 3 figures, contribution to the 32nd International Cosmic Ray Conference, Beijing, China, August 2011
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE)

arXiv:1110.0950 [pdf, ps, other]
Title: Probing proton acceleration in W51C with MAGIC
Authors: E. Carmona, J. Krause, I. Reichardt, for the Magic Collaboration
Comments: In Proceedings of the 32nd International Cosmic Ray Conference
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE)

arXiv:1109.6448 [pdf, ps, other]
Title: Mapping the extended TeV source HESS J1857+026 down to Fermi-LAT energies with the MAGIC telescopes
Authors: S. Klepser, J. Krause, M. Doro, for the MAGIC collaboration
Comments: 4 pages, 3 figures. Contribution to the 32nd ICRC, Beijing, China, August 2011
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE)

Extragalactic sources

arXiv:1109.6774 [pdf, ps, other]
Title: Monitoring of bright, nearby Active Galactic Nuclei with the MAGIC telescopes
Authors: Robert Wagner (1,2), Michael Backes (3), Konstancja Satalecka (4), Giacomo Bonnoli (5), Marlene Doert (3), Burkhard Steinke (1), Nikola Strah (3), Tomislav Terzic (6), Diego Tescaro (7), Malwina Uellenbeck (3) for the MAGIC Collaboration ((1) Max-Planck-Institut für Physik, München, Germany (2) Excellence Cluster "Universe", Garching b. Muünchen, Germany (3) Technische Universität Dortmund, Germany (4) DESY, Zeuthen, ermany (5) INAF, Rome, Italy (6) Croatian MAGIC Consortium, Rudjer Boskovic Institute, Zagreb, Croatia (7) IFAE, Barcelona, Spain)
Comments: 4 pages, 3 figures, proceedings of the 32nd cosmic ray conference, Beijing 2011
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE); Cosmology and Extragalactic Astrophysics (astro-ph.CO)

arXiv:1109.6446 [pdf, ps, other]
Title: Testing the emission models of blazar jets with the MAGIC telescopes
Authors: J. Becerra-González, A. Stamerra, K. Saito, D. Mazin, F. Tavecchio, L. Maraschi, E. Prandini, J. Sitarek, K. Berger, for the MAGIC Collaboration
Comments: 4 pages, 4 figures, contribution to the 32nd International Cosmic Ray Conference, Beijing, China, August 2011
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE)

arXiv:1110.0236 [pdf, ps, other]
Title: Observation of the BL Lac objects 1ES 1215+303 and 1ES 1218+304 with the MAGIC telescopes
Authors: Pierre Colin, Josefa Becerra Gonzalez, Elina Lindfors, Saverio Lombardi, Julian Sitarek, Antonio Stamera, for the MAGIC Collaboration
Comments: 4 pages, 5 figures, Proceedings of the 32nd ICRC (2011) Beijing
Subjects: Cosmology and Extragalactic Astrophysics (astro-ph.CO); High Energy Astrophysical Phenomena (astro-ph.HE)

arXiv:1109.6451 [pdf, ps, other]
Title: Stereoscopic Observations of the Blazar 3C 66A with the MAGIC Telescopes
Authors: S. Klepser, K. Saito, for the MAGIC collaboration
Comments: 4 pages, 3 figures. Contribution to the 32nd ICRC, Beijing, China, August 2011
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE)

arXiv:1109.6216 [pdf, ps, other]
Title: Observation of the Perseus galaxy cluster with the MAGIC telescopes
Authors: S. Lombardi, F. Zandanel, P. Colin, M. Doro, D. Hildebrand, F. Prada, for the MAGIC Collaboration, C. Pfrommer, A. Pinzke
Comments: 4 pages, 3 figures, contribution to the 32nd International Cosmic Ray Conference, Beijing, China, August 2011
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE)

arXiv:1110.5358 [pdf, ps, other]
Title: MAGIC detection of VHE Gamma-ray emission from NGC 1275 and IC 310
Authors: Dorothee Hildebrand, Saverio Lombardi, Pierre Colin, Julian Sitarek, Fabio Zandanel, Francisco Prada, for the MAGIC Collaboration, Christoph Pfrommer, Anders Pinzke
Comments: Proceedings of the 32nd International Cosmic Ray Conference (Beijing)
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE)

Multi-wavelength and joint campaigns

arXiv:1109.6504 [pdf, ps, other]
Title: Multi-Wavelength Observations of the HBL Object 1ES 1011+496 in Spring 2008
Authors: Riho Reinthal, Stefan Rügamer, Elina J. Lindfors, Daniel Mazin, Antonio Stamerra, for the MAGIC collaboration, Francesco Longo, Fabrizio Lucarelli, Carlotta Pittori, for the AGILE team, Anne Lähteenmäki
Comments: 4 pages, 5 figures, contribution to the 32nd ICRC, Beijing 2011
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE)

arXiv:1109.6808 [pdf, ps, other]
Title: MAGIC and Multi-Wavelength Observations of Mrk 180 and 1ES 2344+514 in 2008
Authors: S. Rügamer, E. Angelakis, D. Bastieri, D. Dorner, L. Fuhrmann, Yu. A. Kovalev, Y. Y. Kovalev, A. Lähteenmäki, E. Lindfors, F. Longo, F. Lucarelli, C. Pittori, R. Reinthal, C. Sbarra, K. Sokolovsky, A. Stamerra, H. Ungerechts, for the MAGIC collaboration, the F-GAMMA program, the Fermi-LAT, RATAN, MOJAVE, AGILE, IRAM teams
Comments: 4 pages, 4 figures, contribution to the 32nd International Cosmic Ray Conference, Beijing, China, August 2011
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE)

arXiv:1109.5879 [pdf, ps, other]
Title: MAGIC observations of the giant radio galaxy M87 in a low emission state between 2005 and 2007
Authors: Karsten Berger (1 and 2), Dijana Dominis Prester (3), Fabrizio Tavecchio (4), Tomislav Terzić (3), for the MAGIC Collaboration ((1) Instituto de Astrofísica de Canarias, (2) Universidad de La Laguna, (3) University of Rijeka, (4) INAF National Institute for Astrophysics, Rome)
Comments: 4 pages, 2 tables, 4 figures, proceeding of the 32nd International Conference on Cosmic Rays (ICRC), Beijing, August 11-18, 2011
Subjects: Cosmology and Extragalactic Astrophysics (astro-ph.CO)

arXiv:1109.5887 [pdf, ps, other]
Title: Multifrequency Variability and Correlations from Extensive Observing Campaigns of Mkn 421 and Mkn 501 in 2009
Authors: Ulisses Barres de Almeida, David Paneque, Nina Nowak, Nikola Strah, Diego Tescaro, for the Fermi-LAT, MAGIC, VERITAS Collaborations
Comments: for the Fermi-LAT, MAGIC and VERITAS Collaborations and other groups involved in the 2009 MWL Campaign. To appear in the proceedings of the 32nd International Cosmic Ray Conference (ICRC), Beijing, China
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE)

Fudamental physics, dark matter, cosmic rays

arXiv:1110.4008 [pdf, ps, other]
Title: Measurement of the cosmic electron plus positron spectrum with the MAGIC telescopes
Authors: D. Borla Tridon, P. Colin, L. Cossio, M. Doro, V. Scalzotto, for the MAGIC Collaboration
Comments: 4 pages, presented at 32nd ICRC 2011
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE)

arXiv:1110.0183 [pdf, ps, other]
Title: Probing the CR positron/electron ratio at few hundreds GeV through Moon shadow observation with the MAGIC telescopes
Authors: Pierre Colin, Daniela Borla Tridon, Alicia Diago Ortega, Marlene Doert, Michele Doro, Jonathan Pochon, Nikola Strah, Tihomir Suric, Masahiro Teshima, for the MAGIC Collaboration
Comments: 4 pages, 4 figures, proceedings of the 32nd ICRC (2011) Beijing
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE)

arXiv:1109.6781 [pdf, ps, other]
Title: Segue 1: the best dark matter candidate dwarf galaxy surveyed by MAGIC
Authors: J. Aleksić, M. Doro, S. Lombardi, D. Nieto, for the MAGIC Collaboration, M. Fornasa
Comments: 4 pages, 3 figures, contribution to the 32nd International Cosmic Ray Conference, Beijing, China, August 2011
Subjects: Cosmology and Extragalactic Astrophysics (astro-ph.CO); High Energy Astrophysical Phenomena (astro-ph.HE); High Energy Physics - Experiment (hep-ex); High Energy Physics - Phenomenology (hep-ph)

arXiv:1109.5935 [pdf, ps, other]
Title: The search for galactic dark matter clump candidates with Fermi and MAGIC
Authors: D. Nieto, J. Aleksić, J.A. Barrio, J.L. Contreras, M. Doro, S. Lombardi, N. Mirabal, A. Moralejo, S. Pardo, J. Rico, F. Zandanel, for the MAGIC Collaboration
Comments: 4 pages, 2 figures, contribution to the 32nd International Cosmic Ray Conference, Beijing, China, August 2011
Subjects: High Energy Astrophysical Phenomena (astro-ph.HE); High Energy Physics - Phenomenology (hep-ph)