

## AUGER group publications (July 2012–November 2014)

- [1] A. Aab, P. Abreu, M. Aglietta, M. Ahlers, E. J. Ahn, *et al.*, “A Targeted Search for Point Sources of EeV Neutrons,” *ApJ* **789**, L34 (Jul. 2014), [arXiv:1406.4038 \[astro-ph.HE\]](#)
- [2] Pierre Auger Collaboration, “Depth of Maximum of Air-Shower Profiles at the Pierre Auger Observatory: Composition Implications,” ArXiv e-prints (Sep. 2014), [arXiv:1409.5083 \[astro-ph.HE\]](#)
- [3] A. Aab, P. Abreu, M. Aglietta, E. J. Ahn, I. Al Samarai, *et al.*, “Muons in air showers at the Pierre Auger Observatory: Mean number in highly inclined events,” *Phys. Rev. D* **91**, 032003 (Feb. 2015), [arXiv:1408.1421 \[astro-ph.HE\]](#)
- [4] A. Aab, P. Abreu, M. Aglietta, E. J. Ahn, I. Al Samarai, *et al.*, “Depth of maximum of air-shower profiles at the Pierre Auger Observatory. I. Measurements at energies above  $10^{17.8}$  eV,” *Phys. Rev. D* **90**, 122005 (Dec. 2014), [arXiv:1409.4809 \[astro-ph.HE\]](#)
- [5] A. Aab, P. Abreu, M. Aglietta, M. Ahlers, E. J. Ahn, *et al.*, “A Search for Point Sources of EeV Photons,” *ApJ* **789**, 160 (Jul. 2014), [arXiv:1406.2912 \[astro-ph.HE\]](#)
- [6] A. Aab, P. Abreu, M. Aglietta, M. Ahlers, E. J. Ahn, *et al.*, “Origin of atmospheric aerosols at the Pierre Auger Observatory using studies of air mass trajectories in South America,” *Atmospheric Research* **149**, 120–135 (Nov. 2014), [arXiv:1405.7551 \[astro-ph.IM\]](#)
- [7] A. Aab, P. Abreu, M. Aglietta, E. J. Ahn, I. A. Samarai, *et al.*, “Searches for Large-scale Anisotropy in the Arrival Directions of Cosmic Rays Detected above Energy of  $10^{19}$  eV at the Pierre Auger Observatory and the Telescope Array,” *ApJ* **794**, 172 (Oct. 2014), [arXiv:1409.3128 \[astro-ph.HE\]](#)
- [8] A. Aab, P. Abreu, M. Aglietta, M. Ahlers, E. J. Ahn, *et al.*, “Probing the radio emission from air showers with polarization measurements,” *Phys. Rev. D* **89**, 052002 (Mar. 2014), [arXiv:1402.3677 \[astro-ph.HE\]](#)
- [9] Pierre Auger Collaboration, A. Aab, P. Abreu, M. Aglietta, M. Ahlers, *et al.*, “Reconstruction of inclined air showers detected with the Pierre Auger Observatory,” *J. Cosmology Astropart. Phys.* **8**, 019 (Aug. 2014)
- [10] A. Aab, P. Abreu, M. Aglietta, M. Ahlers, E. J. Ahn, *et al.*, “Muons in air showers at the Pierre Auger Observatory: Measurement of atmospheric production depth,” *Phys. Rev. D* **90**, 012012 (Jul. 2014), [arXiv:1407.5919 \[hep-ex\]](#)
- [11] Pierre Auger Collaboration, “Bounds on the density of sources of ultra-high energy cosmic rays from the Pierre Auger Observatory,” *J. Cosmology Astropart. Phys.* **5**, 009 (May 2013), [arXiv:1305.1576 \[astro-ph.HE\]](#)
- [12] The Pierre Auger Collaboration, “Techniques for measuring aerosol attenuation using the Central Laser Facility at the Pierre Auger Observatory,” *Journal of Instrumentation* **8**, P04009 (Apr. 2013), [arXiv:1303.5576 \[astro-ph.IM\]](#)
- [13] P. Abreu, M. Aglietta, M. Ahlers, E. J. Ahn, I. F. M. Albuquerque, *et al.*, “Identifying clouds over the Pierre Auger Observatory using infrared satellite data,” *Astroparticle Physics* **50**, 92–101 (Dec. 2013), [arXiv:1310.1641 \[astro-ph.IM\]](#)
- [14] Pierre Auger Collaboration, “Interpretation of the depths of maximum of extensive air showers measured by the Pierre Auger Observatory,” *J. Cosmology Astropart. Phys.* **2**, 026 (Feb. 2013), [arXiv:1301.6637 \[astro-ph.HE\]](#)
- [15] Pierre Auger Collaboration, P. Abreu, M. Aglietta, M. Ahlers, E. J. Ahn, *et al.*, “Constraints on the Origin of Cosmic Rays above  $10^{18}$  eV from Large-scale Anisotropy Searches in Data of the Pierre Auger Observatory,” *ApJ* **762**, L13 (Jan. 2013), [arXiv:1212.3083 \[astro-ph.HE\]](#)
- [16] M. Settimo, “Measurement of the cosmic ray energy spectrum using hybrid events of the Pierre Auger Observatory,” *European Physical Journal Plus* **127**, 87 (Aug. 2012), [arXiv:1208.6574 \[astro-ph.HE\]](#)

- [17] P. Abreu, M. Aglietta, M. Ahlers, E. J. Ahn, I. F. M. Albuquerque, *et al.*, “Antennas for the detection of radio emission pulses from cosmic-ray induced air showers at the Pierre Auger Observatory,” *Journal of Instrumentation* **7**, 11P (Oct. 2012), [arXiv:1209.3840 \[astro-ph.IM\]](#)
- [18] Pierre Auger Collaboration, P. Abreu, M. Aglietta, M. Ahlers, E. J. Ahn, *et al.*, “Large-scale Distribution of Arrival Directions of Cosmic Rays Detected Above  $10^{18}$  eV at the Pierre Auger Observatory,” *ApJS* **203**, 34 (Dec. 2012), [arXiv:1210.3736 \[astro-ph.HE\]](#)
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- [21] The Pierre Auger Collaboration, “The rapid atmospheric monitoring system of the Pierre Auger Observatory,” *Journal of Instrumentation* **7**, 9001 (Sep. 2012), [arXiv:1208.1675 \[astro-ph.IM\]](#)
- [22] Pierre Auger Collaboration, P. Abreu, M. Aglietta, M. Ahlers, E. J. Ahn, *et al.*, “A Search for Point Sources of EeV Neutrons,” *ApJ* **760**, 148 (Dec. 2012), [arXiv:1211.4901 \[astro-ph.HE\]](#)
- [23] Pierre Auger Collaboration, P. Abreu, M. Aglietta, M. Ahlers, E. J. Ahn, *et al.*, “Search for Point-like Sources of Ultra-high Energy Neutrinos at the Pierre Auger Observatory and Improved Limit on the Diffuse Flux of Tau Neutrinos,” *ApJ* **755**, L4 (Aug. 2012), [arXiv:1210.3143 \[astro-ph.HE\]](#)
- [24] A. Letessier-Selvon, “Highlights from the Pierre Auger Observatory,” *Brazilian Journal of Physics* **44**, 560–570 (Oct. 2014), [arXiv:1310.4620 \[astro-ph.HE\]](#)
- [25] I. C. Mariş, “Measurement of the energy spectrum of cosmic rays at the highest energies using data from Pierre Auger Observatory,” in *European Physical Journal Web of Conferences*, European Physical Journal Web of Conferences, Vol. 53 (2013) p. 4002, [arXiv:1307.0324 \[astro-ph.HE\]](#)
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- [29] A. Letessier-Selvon, P. Billoir, M. Blanco, I. C. Mariş, and M. Settimo, “Layered water Cherenkov detector for the study of ultra high energy cosmic rays,” *Nuclear Instruments and Methods in Physics Research A* **767**, 41–49 (Dec. 2014), [arXiv:1405.5699 \[astro-ph.IM\]](#)
- [30] M. Settimo and M. De Domenico, “Propagation of extragalactic photons at ultra-high energy with the EleCa code,” *Astroparticle Physics* **62**, 92–99 (Mar. 2015), [arXiv:1311.6140 \[astro-ph.HE\]](#)
- [31] A. Letessier-Selvon, “The need for a multicomponent UHECR Observatory,” in *European Physical Journal Web of Conferences*, European Physical Journal Web of Conferences, Vol. 53 (2013) p. 8018
- [32] M. Settimo, M. De Domenico, and H. Lyberis, “EleCa: A Monte Carlo code for the propagation of extragalactic photons at ultra-high energy,” *Nuclear Physics B Proceedings Supplements* **239**, 279–282 (Jun. 2013), [arXiv:1307.3739 \[astro-ph.HE\]](#)
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