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Top 3 publications

- **"Auger-TA Energy Spectrum Working Group Report"**
D. Ivanov, for the Telescope Array and Pierre Auger collaborations,
UHECR 2018 Conf. Proc. 2019
- **"Measurement of Energy Spectrum of Ultra-High Energy Cosmic Rays"**
V. Verzi, D. Ivanov and Y. Tsunesada,
PTEP **12** 12A103 (2017)
- **"The Cosmic Ray Energy Spectrum Observed with the Surface Detector of the Telescope Array Experiment"**
[Telescope Array Collaboration],
Astrophys. J. **768**, L1 (2013)

Oral Presentations

- August 29 2019: 8th International Conference on New Frontiers in Physics, Kolymbari, Crete, Greece, title: ["Telescope Array Experiment"](#).
- July 7, 2019: The 36th International Cosmic Ray Conference, Madison, Wisconsin, title ["Energy Spectrum Measured by the Telescope Array Experiment"](#).
- April 13, 2019: 2019 April Meeting of the American Physical Society, Denver, Colorado, title ["Energy Spectrum Measured by the Telescope Array Experiment"](#).
- October 8, 2018: 2018 Conference on Ultrahigh Energy Cosmic Rays, Paris, France, title: ["Auger-TA Energy Spectrum Working Group Report"](#).
- October 8, 2018: 2018 Conference on Ultrahigh Energy Cosmic Rays, Paris, France, title: ["TA Spectrum"](#).
- August 8, 2018: TeV Particle Astrophysics, Berlin, Germany, title ["Telescope Array Experiment"](#).
- April 15, 2018: 2019 April Meeting of the American Physical Society, Columbus, Ohio, title: ["Anisotropy Results of the Telescope Array Experiment"](#).
- August 4, 2017: The 35th International Cosmic Ray Conference, Busan, South Korea, title ["Report of the Telescope Array - Pierre Auger Observatory Working Group on Energy Spectrum"](#).
- May 9, 2017: Interplay between Particle and Astroparticle Physics, Madison, Wisconsin, title ["Telescope Array Experiment"](#).
- October 11, 2016: 2016 Conference on Ultrahigh Energy Cosmic Rays, Kyoto, Japan, title: ["TA Spectrum Summary"](#).

- April 4, 2016: 2016 April Meeting of the American Physical Society, Salt Lake City, Utah, title: "Search for EeV Protons of Galactic Origin".
- December 4, 2015: Astrophysical Multimessenger Observatory Network, State College, PA, title "Telescope Array Experiment".
- August 4, 2015: The 34th International Cosmic Ray Conference, The Hague, Netherlands, title "TA Spectrum Summary".
- April 14, 2015: (Invited) 2015 April American Physical Society, Baltimore, Maryland, title: "Recent Results of the Telescope Array Experiment".
- October 13, 2014: 2014 Conference on Ultrahigh Energy Cosmic Rays, Springdale, UT, title: "High Energy Spectrum Measured by the Telescope Array Experiment".

Publications

- **"Energy Spectrum Measured by the Telescope Array Experiment"**
D. Ivanov for the Telescope Array collaboration
PoS ICRC2019, 298 (2020)
- **"Observation of the Origin of Downward Terrestrial Gamma-Ray Flashes"**
[Telescope Array collaboration],
Accepted by JGR - Atmospheres as of 10/2020
- **"Using deep learning to enhance event geometry reconstruction for the telescope array surface detector"**
D. Ivanov, O. Kalashev, M. Kuznetsov, G. Rubtsov, T. Sako, Y. Tsunesada, and Y. Zhezher
Accepted by Machine Learning Science and Technology as of 08/2020
- Astrophys. J. **899**, no.1, 86 (2020)
- Mon.Not.Roy.Astron.Soc. 492 (2020) no.3, 3984–3993
- JETP 158 (2020) (8(2))
- **"Auger-TA Energy Spectrum Working Group Report"**
D. Ivanov, for the Telescope Array and Pierre Auger collaborations
UHECR 2018 Conf. Proc. 2019
- Astropart. Phys. **110**, 8-14 (2019)
- **"Auger-TA Energy Spectrum Working Group Report"**
D. Ivanov, for the Telescope Array and Pierre Auger collaborations
UHECR 2018 Conf. Proc. 2019
- **"Energy Spectrum Measured by the Telescope Array Experiment"**
D. Ivanov, for the Telescope Array collaboration
ICRC 2019 Conf. Proc. PoS(ICRC2019)298
- Astrophys. J. Lett. **867** L27 (2018)

- **”Evidence for Declination Dependence of Ultrahigh Energy Cosmic Ray Spectrum in the Northern Hemisphere”**
[Telescope Array collaboration],
[arXiv:1801.07820 [astro-ph.HE]]
- **”TA Spectrum”**
D. Ivanov, for the Telescope Array collaboration
UHECR 2018 Conf. Proc. 2019
- **”The Knee and the Second Knee of the Cosmic-Ray Energy Spectrum”**
T. Abu-Zayyad, D. Ivanov, C.C.H. Jui, J.H. Kim, J.N. Matthews, J.D. Smith, S.B. Thomas, G.B. Thomson, and Z. Zundel
[arXiv:1803.07052 [astro-ph.HE]]
- Astrophys. J. **865**, no. 1, 74 (2018)
- Astrophys. J. **862**, no. 2, 91 (2018)
- **”Report of the Telescope Array - Pierre Auger Observatory Working Group on Energy Spectrum”**
D. Ivanov, for Telescope Array and Pierre Auger collaborations
ICRC Conf. Proc. PoS(ICRC2017)498.
- **”Measurement of Energy Spectrum of Ultra-High Energy Cosmic Rays”**
V. Verzi, D. Ivanov and Y. Tsunesada,
PTEP **12** 12A103 (2017)
- **”Search for Anisotropy in the Ultra High Energy Cosmic Ray Spectrum using the Telescope Array Surface Detector”**
[Telescope Array collaboration],
[arXiv:1707.04967 [astro-ph.HE]].
- Astropart. Phys. **87**, 1-17 (2017)
- Astropart. Phys. **86**, 21-26 (2017)
- P. G. Tinyakov, F.R. Urban, D. Ivanov, G. B. Thomson, A. H. Tirone, Mon.Not.Roy.Astron.Soc. 460 (2016) no.4, 3479-3487
- **”TA Spectrum Summary”**
D. Ivanov, for the Telescope Array Collaboration,
ICRC Conf. Proc. (2015).
- Phys. Rev. D **92**, no. 3, 032007 (2015)
- Astropart. Phys. **64**, 49 (2015)
- Astropart. Phys. **61**, 93 (2015)
- Nucl. Instrum. Meth. A **768**, 96 (2014).
- Astrophys. J. **794**, no. 2, 172 (2014)

- Astrophys. J. **790**, L21 (2014)
- Phys. Rev. D **88**, 112005 (2013)
- Astropart. Phys. **48**, 16 (2013)
- Astrophys. J. **777**, 88 (2013)
- Astrophys. J. **757**, 26 (2012)
- Astropart. Phys. **48**, 16-24 (2013)
- Nucl. Instrum. Meth. A **689**, 87-97 (2013)
- Nucl. Instrum. Meth. A **676**, 54-65 (2012)
- AIP Conf. Proc. **1367**, 181 (2011).
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- J. Phys. Conf. Ser. **293**, 012035 (2011).
- B. T. Stokes, R. Cady, D. Ivanov, J. N. Matthews and G. B. Thomson. Astropart. Phys. **35**, 759-766 (2012)
- **"A Simple Parallelization Scheme for Extensive Air Shower Simulations"**
B. T. Stokes, R. Cady, D. Ivanov, J. N. Matthews and G. B. Thomson.
arXiv:1103.4643 [astro-ph.IM]
- AIP Conf. Proc. **1238**, 365 (2010).
- Astrophys. J. Lett. **713**, no.1, L64-L68 (2010)
- Phys. Rev. Lett. **104**, 161101 (2010)
- Nucl. Phys. Proc. Suppl. **190**, 26 (2009).
- Astropart. Phys. **32**, 53 (2009)
- Astropart. Phys. **30**, 175 (2008)
- Astrophys. J. **684**, 790 (2008)