Cinzia De Donato

List of Publications by Year in descending order

131 papers	6,619 citations	101543 36 h-index	62596 80 g-index
137 all docs	137 docs citations	137 times ranked	3434 citing authors

#	Article	IF	Citations
1	Correlation of the Highest-Energy Cosmic Rays with Nearby Extragalactic Objects. Science, 2007, 318, 938-943.	12.6	647
2	Observation of the Suppression of the Flux of Cosmic Rays above<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>4</mml:mn><mml:mo>Ã—</mml:mo><mml:msup><mml:mn>10</mml:mn><mml:mn>19</mml:mn></mml: Physical Review Letters, 2008, 101, 061101.	7.8	500
3	The Pierre Auger Cosmic Ray Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 798, 172-213.	1.6	442
4	Measurement of the Depth of Maximum of Extensive Air Showers above<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mn>10</mml:mn><mml:mn>18</mml:mn></mml:msup><mml:mtext>â€‰</mml:mtext><mml:mt Physical Review Letters, 2010, 104, 091101.	7.8	429
5	Measurement of the energy spectrum of cosmic rays above 1018 eV using the Pierre Auger Observatory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 685, 239-246.	4.1	357
6	Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei. Astroparticle Physics, 2008, 29, 188-204.	4.3	305
7	The fluorescence detector of the Pierre Auger Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 620, 227-251.	1.6	275
8	Update on the correlation of the highest energy cosmic rays with nearby extragalactic matter. Astroparticle Physics, 2010, 34, 314-326.	4.3	270
9	Cosmic-Ray Positron Energy Spectrum Measured by PAMELA. Physical Review Letters, 2013, 111, 081102.	7.8	243
10	Measurement of the Proton-Air Cross Section at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msqrt><mml:mi>s</mml:mi></mml:msqrt><mml:mo mathvariant="bold">=</mml:mo><mml:mn>57</mml:mn><mml:mtext>â€‰</mml:mtext><mml:mtext>â€‰</mml:mtext><mml:mi>T the Pierre Auger Observatory. Physical Review Letters, 2012, 109, 062002.	7.8	212
11	Upper limit on the cosmic-ray photon flux above 1019eV using the surface detector of the Pierre Auger Observatory. Astroparticle Physics, 2008, 29, 243-256.	4.3	161
12	Trigger and aperture of the surface detector array of the Pierre Auger Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 613, 29-39.	1.6	151
13	Upper Limit on the Diffuse Flux of Ultrahigh Energy Tau Neutrinos from the Pierre Auger Observatory. Physical Review Letters, 2008, 100, 211101.	7.8	141
14	MEASUREMENT OF BORON AND CARBON FLUXES IN COSMIC RAYS WITH THE PAMELA EXPERIMENT. Astrophysical Journal, 2014, 791, 93.	4.5	127
15	Upper limit on the cosmic-ray photon fraction at EeV energies from the Pierre Auger Observatory. Astroparticle Physics, 2009, 31, 399-406.	4.3	117
16	An evaluation of the exposure in nadir observation of the JEM-EUSO mission. Astroparticle Physics, 2013, 44, 76-90.	4.3	102
17	Limit on the diffuse flux of ultrahigh energy tau neutrinos with the surface detector of the Pierre Auger Observatory. Physical Review D, 2009, 79, .	4.7	99
18	Antennas for the detection of radio emission pulses from cosmic-ray induced air showers at the Pierre Auger Observatory. Journal of Instrumentation, 2012, 7, P10011-P10011.	1.2	95

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19	An upper limit to the photon fraction in cosmic rays above 1019eV from the Pierre Auger Observatory. Astroparticle Physics, 2007, 27, 155-168.	4.3	90
20	A study of the effect of molecular and aerosol conditions in the atmosphere on air fluorescence measurements at the Pierre Auger Observatory. Astroparticle Physics, 2010, 33, 108-129.	4.3	84
21	Search for first harmonic modulation in the right ascension distribution of cosmic rays detected at the Pierre Auger Observatory. Astroparticle Physics, 2011, 34, 627-639.	4.3	73
22	CONSTRAINTS ON THE ORIGIN OF COSMIC RAYS ABOVE 10 ¹⁸ eV FROM LARGE-SCALE ANISOTROPY SEARCHES IN DATA OF THE PIERRE AUGER OBSERVATORY. Astrophysical Journal Letters, 2013, 762, L13.	8.3	67
23	Description of atmospheric conditions at the Pierre Auger Observatory using the Global Data Assimilation System (GDAS). Astroparticle Physics, 2012, 35, 591-607.	4.3	66
24	TIME DEPENDENCE OF THEe^{â˜’}FLUX MEASURED BYPAMELADURING THE 2006 JULYâ€“2009 DECEMBER SOLAR MINIMUM. Astrophysical Journal, 2015, 810, 142.	4.5	60
25	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. Astrophysical Journal Letters, 2012, 755, L4.	8.3	55
26	The exposure of the hybrid detector of the Pierre Auger Observatory. Astroparticle Physics, 2011, 34, 368-381.	4.3	54
27	Advanced functionality for radio analysis in the Offline software framework of the Pierre Auger Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 635, 92-102.	1.6	52
28	Anisotropy studies around the galactic centre at EeV energies with the Auger Observatory. Astroparticle Physics, 2007, 27, 244-253.	4.3	51
29	Search for ultrahigh energy neutrinos in highly inclined events at the Pierre Auger Observatory. Physical Review D, 2011, 84, .	4.7	51
30	MEASUREMENTS OF COSMIC-RAY HYDROGEN AND HELIUM ISOTOPES WITH THE PAMELA EXPERIMENT. Astrophysical Journal, 2016, 818, 68.	4.5	49
31	The JEM-EUSO instrument. Experimental Astronomy, 2015, 40, 19-44.	3.7	45
32	LARGE-SCALE DISTRIBUTION OF ARRIVAL DIRECTIONS OF COSMIC RAYS DETECTED ABOVE 10¹⁸ eV AT THE PIERRE AUGER OBSERVATORY. Astrophysical Journal, Supplement Series, 2012, 203, 34.	7.7	44
33	Atmospheric effects on extensive air showers observed with the surface detector of the Pierre Auger observatory. Astroparticle Physics, 2009, 32, 89-99.	4.3	43
34	Ultrahigh Energy Neutrinos at the Pierre Auger Observatory. Advances in High Energy Physics, 2013, 2013, 1-18.	1.1	39
35	The JEM-EUSO mission: An introduction. Experimental Astronomy, 2015, 40, 3-17.	3.7	38
36	The HEPD particle detector of the CSES satellite mission for investigating seismo-associated perturbations of the Van Allen belts. Science China Technological Sciences, 2018, 61, 643-652.	4.0	37

#	Article	IF	Citations
37	Measurement of the cosmic ray energy spectrum using hybrid events of the Pierre Auger Observatory. European Physical Journal Plus, 2012, 127, 1.	2.6	34
38	Bounds on the density of sources of ultra-high energy cosmic rays from the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 009-009.	5.4	34
39	Scientific Goals and In-orbit Performance of the High-energy Particle Detector on Board the CSES. Astrophysical Journal, Supplement Series, 2019, 243, 16.	7.7	33
40	Search for signatures of magnetically-induced alignment in the arrival directions measured by the Pierre Auger Observatory. Astroparticle Physics, 2012, 35, 354-361.	4.3	32
41	The EUSO-Balloon pathfinder. Experimental Astronomy, 2015, 40, 281-299.	3.7	31
42	The GAMMA-400 experiment: Status and prospects. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 417-420.	0.6	30
43	A SEARCH FOR POINT SOURCES OF EeV NEUTRONS. Astrophysical Journal, 2012, 760, 148.	4.5	27
44	TRAPPED PROTON FLUXES AT LOW EARTH ORBITS MEASURED BY THE PAMELA EXPERIMENT. Astrophysical Journal Letters, 2015, 799, L4.	8.3	27
45	JEM-EUSO: Meteor and nuclearite observations. Experimental Astronomy, 2015, 40, 253-279.	3.7	27
46	PAMELAâ€™S MEASUREMENTS OF MAGNETOSPHERIC EFFECTS ON HIGH-ENERGY SOLAR PARTICLES. Astrophysical Journal Letters, 2015, 801, L3.	8.3	27
47	EUSO-TA â€“ First results from a ground-based EUSO telescope. Astroparticle Physics, 2018, 102, 98-111.	4.3	27
48	The effect of the geomagnetic field on cosmic ray energy estimates and large scale anisotropy searches on data from the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 022-022.	5.4	24
49	The rapid atmospheric monitoring system of the Pierre Auger Observatory. Journal of Instrumentation, 2012, 7, P09001-P09001.	1.2	24
50	Results of a self-triggered prototype system for radio-detection of extensive air showers at the Pierre Auger Observatory. Journal of Instrumentation, 2012, 7, P11023-P11023.	1.2	24
51	PAMELA's measurements of geomagnetic cutoff variations during the 14 December 2006 storm. Space Weather, 2016, 14, 210-220.	3.7	21
52	Reentrant albedo proton fluxes measured by the PAMELA experiment. Journal of Geophysical Research: Space Physics, 2015, 120, 3728-3738.	2.4	20
53	Galactic Cosmic-Ray Hydrogen Spectra in the 40â€“250 MeV Range Measured by the High-energy Particle Detector (HEPD) on board the CSES-01 Satellite between 2018 and 2020. Astrophysical Journal, 2020, 901, 8.	4.5	19
54	Force-field parameterization of the galactic cosmic ray spectrum: Validation for Forbush decreases. Advances in Space Research, 2015, 55, 2940-2945.	2.6	18

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55	Ultra-violet imaging of the night-time earth by EUSO-Balloon towards space-based ultra-high energy cosmic ray observations. Astroparticle Physics, 2019, 111, 54-71.	4.3	18
56	Cosmic ray oriented performance studies for the JEM-EUSO first level trigger. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 866, 150-163.	1.6	17
57	Meteor studies in the framework of the JEM-EUSO program. Planetary and Space Science, 2017, 143, 245-255.	1.7	17
58	The Pierre Auger Observatory scaler mode for the study of solar activity modulation of galactic cosmic rays. Journal of Instrumentation, 2011, 6, P01003-P01003.	1.2	16
59	The Lateral Trigger Probability function for the Ultra-High Energy Cosmic Ray showers detected by the Pierre Auger Observatory. Astroparticle Physics, 2011, 35, 266-276.	4.3	16
60	Ground-based tests of JEM-EUSO components at the Telescope Array site, â€œEUSO-TAâ€• Experimental Astronomy, 2015, 40, 301-314.	3.7	16
61	JEM-EUSO observational technique and exposure. Experimental Astronomy, 2015, 40, 117-134.	3.7	16
62	First observations of speed of light tracks by a fluorescence detector looking down on the atmosphere. Journal of Instrumentation, 2018, 13, P05023-P05023.	1.2	15
63	Beam test calibrations of the HEPD detector on board the China Seismo-Electromagnetic Satellite. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 974, 164170.	1.6	15
64	Experimental constraints on the astrophysical interpretation of the cosmic ray Galacticâ€“extragalactic transition region. Astroparticle Physics, 2009, 32, 253-268.	4.3	14
65	New Upper Limit on Strange Quark Matter Abundance in Cosmic Rays with the PAMELA Space Experiment. Physical Review Letters, 2015, 115, 111101.	7.8	14
66	Lithium and Beryllium Isotopes with the PAMELAÂExperiment. Astrophysical Journal, 2018, 862, 141.	4.5	14
67	Geomagnetically trapped, albedo and solar energetic particles: Trajectory analysis and flux reconstruction with PAMELA. Advances in Space Research, 2017, 60, 788-795.	2.6	13
68	The August 2018 Geomagnetic Storm Observed by the High-Energy Particle Detector on Board the CSES-01 Satellite. Applied Sciences (Switzerland), 2021, 11, 5680.	2.5	13
69	Space experiment TUS on board the Lomonosov satellite as pathfinder of JEM-EUSO. Experimental Astronomy, 2015, 40, 315-326.	3.7	11
70	A compact Time-Of-Flight detector for space applications: The LIDAL system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 898, 98-104.	1.6	11
71	Separation of electrons and protons in the GAMMA-400 gamma-ray telescope. Advances in Space Research, 2015, 56, 1538-1545.	2.6	10
72	The JEM-EUSO observation in cloudy conditions. Experimental Astronomy, 2015, 40, 135-152.	3.7	10

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73	The atmospheric monitoring system of the JEM-EUSO instrument. Experimental Astronomy, 2015, 40, 45-60.	3.7	10
74	Control and data acquisition software of the highâ€energy particle detector on board the China Seismoâ€Electromagnetic Satellite space mission. Software - Practice and Experience, 2021, 51, 1459-1480.	3.6	10
75	Anisotropy and chemical composition of ultra-high energy cosmic rays using arrival directions measured by the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 022-022.	5.4	9
76	Study of the radiation damage of Silicon Photo-Multipliers at the GELINA facility. Journal of Instrumentation, 2014, 9, P04004-P04004.	1.2	9
77	SEARCH FOR ANISOTROPIES IN COSMIC-RAY POSITRONS DETECTED BY THE PAMELA EXPERIMENT. Astrophysical Journal, 2015, 811, 21.	4.5	9
78	The HEPD particle detector and the EFD electric field detector for the CSES satellite. Radiation Physics and Chemistry, 2017, 137, 187-192.	2.8	9
79	The electronics of the High-Energy Particle Detector on board the CSES-01 satellite. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1013, 165639.	1.6	9
80	Publisherâ€™s Note: Search for ultrahigh energy neutrinos in highly inclined events at the Pierre Auger Observatory [Phys. Rev. D84, 122005 (2011)]. Physical Review D, 2012, 85, .	4.7	8
81	Space Î³-observatory GAMMA-400 Current Status and Perspectives. Physics Procedia, 2015, 74, 177-182.	1.2	8
82	Science of atmospheric phenomena with JEM-EUSO. Experimental Astronomy, 2015, 40, 239-251.	3.7	8
83	Performances of JEM-EUSO: angular reconstruction. Experimental Astronomy, 2015, 40, 153-177.	3.7	8
84	Using stars to determine the absolute pointing of the fluorescence detector telescopes of the Pierre Auger Observatory. Astroparticle Physics, 2007, 28, 216-231.	4.3	7
85	Performances of JEMâ€“EUSO: energy and X max reconstruction. Experimental Astronomy, 2015, 40, 183-214.	3.7	7
86	The infrared camera onboard JEM-EUSO. Experimental Astronomy, 2015, 40, 61-89.	3.7	7
87	New results on protons inside the South Atlantic Anomaly, at energies between 40 and 250ÂMeV in the period 2018â€“2020, from the CSES-01 satellite mission. Physical Review D, 2022, 105, .	4.7	7
88	A search for anisotropy in the arrival directions of ultra high energy cosmic rays recorded at the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 040-040.	5.4	6
89	New measurements of the energy spectra of high-energy cosmic-ray protons and helium nuclei with the calorimeter in the PAMELA experiment. Journal of Experimental and Theoretical Physics, 2014, 119, 448-452.	0.9	6
90	Calibration aspects of the JEM-EUSO mission. Experimental Astronomy, 2015, 40, 91-116.	3.7	5

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91	The May 17, 2012 solar event: back-tracing analysis and flux reconstruction with PAMELA. Journal of Physics: Conference Series, 2016, 675, 032006.	0.4	5
92	Measurement of hydrogen and helium isotopes flux in galactic cosmic rays with the PAMELA experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 742, 273-275.	1.6	4
93	Measurement of the large-scale anisotropy of cosmic rays in the PAMELA experiment. JETP Letters, 2015, 101, 295-298.	1.4	4
94	The GAMMA-400 gamma-ray telescope for precision gamma-ray emission investigations. Journal of Physics: Conference Series, 2016, 675, 032009.	0.4	4
95	The PAMELA experiment: a decade of Cosmic Ray Physics in space. Journal of Physics: Conference Series, 2017, 798, 012033.	0.4	4
96	Trapped Proton Fluxes Estimation Inside the South Atlantic Anomaly Using the NASA AE9/AP9/SPM Radiation Models along the China Seismo-Electromagnetic Satellite Orbit. Applied Sciences (Switzerland), 2021, 11, 3465.	2.5	4
97	On the Magnetosphereâ€Ionosphere Coupling During the May 2021 Geomagnetic Storm. Space Weather, 2022, 20, .	3.7	4
98	Buried plastic scintillator muon telescope (BATATA). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 511-514.	1.6	3
99	Measurement of electron-positron spectrum in high-energy cosmic rays in the PAMELA experiment. Journal of Physics: Conference Series, 2015, 632, 012014.	0.4	3
100	Ultra high energy photons and neutrinos with JEM-EUSO. Experimental Astronomy, 2015, 40, 215-233.	3.7	3
101	LIDAL (Light Ion Detector for ALTEA): a compact Time-Of-Flight detector for radiation risk assessment in space. Journal of Physics: Conference Series, 2019, 1226, 012024.	0.4	3
102	Silicon photo-multiplier radiation hardness tests with a white neutron beam. , 2013, , .		2
103	A method to detect positron anisotropies with Pamela data. Nuclear Physics, Section B, Proceedings Supplements, 2014, 256-257, 173-178.	0.4	2
104	Analysis on H spectral shape during the early 2012 SEPs with the PAMELA experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 742, 158-161.	1.6	2
105	Solar modulation of GCR electrons over the 23rd solar minimum with PAMELA. Journal of Physics: Conference Series, 2015, 632, 012073.	0.4	2
106	Perspectives of the GAMMA-400 space observatory for high-energy gamma rays and cosmic rays measurements. Journal of Physics: Conference Series, 2016, 675, 032010.	0.4	2
107	The measurement of the dipole anisotropy of protons and helium cosmic rays with the PAMELA experiment. Journal of Physics: Conference Series, 2016, 675, 032005.	0.4	2
108	A compact Time-Of-Flight detector for radiation measurements in a space habitat: LIDALâ€“ALTEA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 222-223.	1.6	2

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109	North-south asymmetry for high-energy cosmic-ray electrons measured with the PAMELA experiment. Journal of Experimental and Theoretical Physics, 2013, 117, 268-273.	0.9	1
110	PAMELA mission: heralding a new era in cosmic ray physics. EPJ Web of Conferences, 2014, 71, 00115.	0.3	1
111	PAMELA measurements of the boron and carbon spectra. Journal of Physics: Conference Series, 2015, 632, 012017.	0.4	1
112	The PAMELA experiment and cosmic ray observations. Nuclear and Particle Physics Proceedings, 2015, 265-266, 242-244.	0.5	1
113	Measuring the albedo deuteron flux in the PAMELA satellite experiment. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 294-297.	0.6	1
114	Measuring the spectra of high-energy cosmic-ray particles in the PAMELA experiment. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 289-293.	0.6	1
115	Searching for anisotropy of positrons and electrons in the PAMELA experiment. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 298-301.	0.6	1
116	Monte Carlo simulation of the LIDAL-ALTEA detector system. Journal of Physics: Conference Series, 2019, 1226, 012020.	0.4	1
117	First in-flight performances of the High Energy Particle Detector on board CSES. , 2019, , .		1
118	Space-Weather capabilities and preliminary results of the High Energy Particle Detector (HEPD) on-board the CSES-01 satellite. , 2019, , .		1
119	Search for a positron anisotropy with PAMELA experiment. ASTRA Proceedings, 0, 2, 17-20.	0.0	1
120	Optical transmission of low-level signals with high dynamic range using the optically-coupled current-mirror architecture. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 572, 345-348.	1.6	0
121	The PAMELA experiment and antimatter in the universe. Hyperfine Interactions, 2014, 228, 101-109.	0.5	0
122	Search for Spatial and Temporary Variations of Galactic Cosmic Ray Positrons in PAMELA Experiment. Physics Procedia, 2015, 74, 302-307.	1.2	0
123	Time variations of proton flux in Earth inner radiation belt during 23/24 solar cycles based on the PAMELA and the ARINA data. Journal of Physics: Conference Series, 2015, 632, 012069.	0.4	0
124	Study of deuteron spectra under radiation belt with PAMELA instrument. Journal of Physics: Conference Series, 2015, 632, 012060.	0.4	0
125	Detection of a change in the North-South ratio of count rates of particles of high-energy cosmic rays during a change in the polarity of the magnetic field of the Sun. JETP Letters, 2015, 101, 228-231.	1.4	0
126	Features of re-entrant albedo deuteron trajectories in near Earth orbit with PAMELA experiment. Journal of Physics: Conference Series, 2016, 675, 032007.	0.4	0

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127	Deuteron spectrum measurements under radiation belt with PAMELA instrument. Nuclear and Particle Physics Proceedings, 2016, 273-275, 2345-2347.	0.5	0
128	H, He, Li and Be Isotopes in the PAMELA-Experiment. Journal of Physics: Conference Series, 2016, 675, 032001.	0.4	0
129	Sharp increasing of positron to electron fluxes ratio below 2 GV measured by the PAMELA. Journal of Physics: Conference Series, 2017, 798, 012019.	0.4	0
130	The HEPD apparatus for the CSES mission. Journal of Physics: Conference Series, 2020, 1342, 012125.	0.4	0
131	Deep learning based event reconstruction for the Limadou High-Energy Particle Detector. Physical Review D, 2022, 105, .	4.7	0