

Ernesto Lamanna

List of Publications by Year in descending order

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129
papers

25,258
citations

109321

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17105

122
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129
all docs

129
docs citations

129
times ranked

18830
citing authors

#	ARTICLE	IF	CITATIONS
1	Geant4 a simulation toolkit. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 506, 250-303.	1.6	17,893
2	The ATLAS Experiment at the CERN Large Hadron Collider. Journal of Instrumentation, 2008, 3, S08003-S08003.	1.2	1,752
3	The BABAR detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 479, 1-116.	1.6	1,216
4	Measurement of the atmospheric neutrino-induced upgoing muon flux using MACRO. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 434, 451-457.	4.1	315
5	The Physics of the B Factories. European Physical Journal C, 2014, 74, 1.	3.9	292
6	Final results of magnetic monopole searches with the MACRO experiment. European Physical Journal C, 2002, 25, 511-522.	3.9	158
7	Matter effects in upward-going muons and sterile neutrino oscillations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 517, 59-66.	4.1	151
8	Vertical muon intensity measured with MACRO at the Gran Sasso laboratory. Physical Review D, 1995, 52, 3793-3802.	4.7	149
9	The BB detector: Upgrades, operation and performance. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 729, 615-701.	1.6	148
10	First supermodule of the MACRO detector at Gran Sasso. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 324, 337-362.	1.6	137
11	Study of time-dependent CP-violating asymmetries and flavor oscillations in neutral B decays at the $\Upsilon(4S)$. Physical Review D, 2002, 66, .	4.7	134
12	Measurement of CP-Violating Asymmetries in B ⁰ Decays to CP Eigenstates. Physical Review Letters, 2001, 86, 2515-2522.	7.8	125
13	Measurements of Branching Fractions and CP-Violating Asymmetries in B ⁰ \rightarrow $\pi^+ \pi^-$, $K^+ \pi^-$, $K^+ K^0$ Decays. Physical Review Letters, 2002, 89, 281802.	7.8	122
14	Seasonal variations in the underground muon intensity as seen by MACRO. Astroparticle Physics, 1997, 7, 109-124.	4.3	107
15	Measurements of atmospheric muon neutrino oscillations, global analysis of the data collected with MACRO detector. European Physical Journal C, 2004, 36, 323-339.	3.9	100
16	Atmospheric neutrino oscillations from upward throughgoing muon multiple scattering in MACRO. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 566, 35-44.	4.1	97
17	Atmospheric neutrino flux measurement using upgoing muons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 357, 481-486.	4.1	83
18	Development of 3D PVA scaffolds for cardiac tissue engineering and cell screening applications. RSC Advances, 2019, 9, 4246-4257.	3.6	76

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19	Limits on dark matter WIMPs using upward-going muons in the MACRO detector. Physical Review D, 1999, 60, .	4.7	74
20	Low energy atmospheric muon neutrinos in MACRO. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 478, 5-13.	4.1	73
21	Study of D+ and D ⁺ Feynman's x distributions in $\bar{\nu}_\mu$ -nucleus interactions at the SPS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 305, 402-406.	4.1	72
22	The cosmic ray primary composition between 1015 and 1016 eV from Extensive Air Showers electromagnetic and TeV muon data. Astroparticle Physics, 2004, 20, 641-652.	4.3	71
23	Neutrino Astronomy with the MACRO Detector. Astrophysical Journal, 2001, 546, 1038-1054.	4.5	65
24	The MACRO detector at Gran Sasso. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 663-707.	1.6	60
25	Measurement of f_2/\bar{f}_2 Production in Continuum e^+e^- Annihilations near $\sqrt{s}=10.6\text{GeV}$. Physical Review Letters, 2001, 87, 162002.	7.8	57
26	Measurement of branching fractions for exclusive B decays to charmonium final states. Physical Review D, 2002, 65, .	4.7	56
27	Measurement of the $B \rightarrow J/\psi K^*(892)$ Decay Amplitudes. Physical Review Letters, 2001, 87, 241801.	7.8	52
28	Search for the sidereal and solar diurnal modulations in the total MACRO muon data set. Physical Review D, 2003, 67, .	4.7	52
29	The macro detector at the Gran Sasso Laboratory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1988, 264, 18-23.	1.6	50
30	The cosmic ray proton, helium and CNO fluxes in the 100 TeV energy region from TeV muons and EAS atmospheric Cherenkov light observations of MACRO and EAS-TOP. Astroparticle Physics, 2004, 21, 223-240.	4.3	47
31	Study of penetrating cosmic ray muons and search for large scale anisotropies at the Gran Sasso Laboratory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 249, 149-156.	4.1	44
32	Measurements of the Branching Fractions of Exclusive Charmless B Meson Decays with π^0 Mesons. Physical Review Letters, 2001, 87, 221802.	7.8	43
33	Measurement of $B \rightarrow K^* \pi^0$ Branching Fractions and Charge Asymmetries. Physical Review Letters, 2002, 88, 101805.	7.8	38
34	Study of the ultrahigh-energy primary-cosmic-ray composition with the MACRO experiment. Physical Review D, 1992, 46, 895-902.	4.7	37
35	The observation of up-going charged particles produced by high energy muons in underground detectors. Astroparticle Physics, 1998, 9, 105-117.	4.3	36
36	Search for diffuse neutrino flux from astrophysical sources with MACRO. Astroparticle Physics, 2003, 19, 1-13.	4.3	35

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37	Study of the primary cosmic ray composition around the knee of the energy spectrum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 337, 376-382.	4.1	34
38	Investigation of the decay of charmed particles produced in neutrino interactions. Nuclear Physics B, 1980, 176, 13-36.	2.5	33
39	A-dependence of the charm production cross section in interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 191, 456-461.	4.1	33
40	Search for nuclearites using the MACRO detector. Physical Review Letters, 1992, 69, 1860-1863.	7.8	32
41	Measurement of the Decays $\Lambda_c^+ \rightarrow \Lambda^0 \pi^+$ and $\Lambda_c^+ \rightarrow \Sigma^0 \pi^+$. Physical Review Letters, 2001, 87, 151801.	7.8	32
42	Measurement of the residual energy of muons in the Gran Sasso underground laboratories. Astroparticle Physics, 2003, 19, 313-328.	4.3	32
43	On the lifetime of charged charmed particles first direct observation of a charmed baryon decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1979, 84, 150-155.	4.1	31
44	Measurement of the decoherence function with the MACRO detector at Gran Sasso. Physical Review D, 1992, 46, 4836-4845.	4.7	29
45	Search for slowly moving magnetic monopoles with the MACRO detector. Physical Review Letters, 1994, 72, 608-612.	7.8	29
46	Measurement of $B^0 \rightarrow \pi^+ \pi^-$ Flavor Oscillations in Hadronic B^0 Decays. Physical Review Letters, 2002, 88, 221802.	7.8	29
47	Moon and Sun shadowing effect in the MACRO detector. Astroparticle Physics, 2003, 20, 145-156.	4.3	29
48	Search for nucleon decays induced by GUT magnetic monopoles with the MACRO experiment. European Physical Journal C, 2002, 26, 163-172.	3.9	28
49	Muon astronomy with the MACRO detector. Astrophysical Journal, 1993, 412, 301.	4.5	28
50	Hadron, electron and muon response of a uranium-scintillator calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1987, 260, 43-54.	1.6	27
51	Magnetic monopole search with the MACRO detector at Gran Sasso. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 406, 249-255.	4.1	27
52	Measurement of the energy spectrum of underground muons at Gran Sasso with a transition radiation detector. Astroparticle Physics, 1999, 10, 11-20.	4.3	27
53	Performance of the MACRO streamer tube system in the search for magnetic monopoles. Astroparticle Physics, 1995, 4, 33-43.	4.3	26
54	High energy cosmic ray physics with underground muons in MACRO. II. Primary spectra and composition. Physical Review D, 1997, 56, 1418-1436.	4.7	26

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55	Search for neutrino bursts from collapsing stars with the MACRO detector. <i>Astroparticle Physics</i> , 1992, 1, 11-25.	4.3	25
56	The production of beauty particles in $\bar{\nu}_e$ -U interactions at 320 GeV energy. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1987, 187, 431-436.	4.1	23
57	Improvements in the CR39 polymer for the macro experiment at the Gran Sasso Laboratory. <i>International Journal of Radiation Applications and Instrumentation Part D, Nuclear Tracks and Radiation Measurements</i> , 1991, 19, 641-646.	0.5	22
58	Measurement of the $B^0 \rightarrow B^0$ Oscillation Frequency with Inclusive Dilepton Events. <i>Physical Review Letters</i> , 2002, 88, 221803.	7.8	22
59	High statistics measurement of the underground muon pair separation at Gran Sasso. <i>Physical Review D</i> , 1999, 60, .	4.7	21
60	Measurement of the B^0 and B^+ Meson Lifetimes with Fully Reconstructed Hadronic Final States. <i>Physical Review Letters</i> , 2001, 87, 201803.	7.8	21
61	Decay time of light emission from cerium-doped scintillating glass. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1989, 281, 50-54.	1.6	20
62	A-dependence of the charm production cross section in 300 GeV/c proton interactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1988, 206, 546-550.	4.1	19
63	Simultaneous observation of extensive air showers and deep-underground muons at the Gran Sasso Laboratory. <i>Physical Review D</i> , 1990, 42, 1396-1403.	4.7	19
64	Sources of noise in high-resolution tracking with scintillating fibres. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1990, 289, 356-364.	1.6	18
65	A new design scintillating fiber calorimeter to search for neutrino oscillations in massive underground detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1995, 363, 604-610.	1.6	18
66	The performance of MACRO liquid scintillator in the search for magnetic monopoles with $10^{-3} < \hat{\mu}^2 < 1$. <i>Astroparticle Physics</i> , 1997, 6, 113-128.	4.3	18
67	Muon energy estimate through multiple scattering with the MACRO detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002, 492, 376-386.	1.6	18
68	High energy cosmic ray physics with underground muons in MACRO. I. Analysis methods and experimental results. <i>Physical Review D</i> , 1997, 56, 1407-1417.	4.7	17
69	Real time supernova neutrino burst detection with MACRO. <i>Astroparticle Physics</i> , 1998, 8, 123-133.	4.3	17
70	Search for lightly ionizing particles with the MACRO detector. <i>Physical Review D</i> , 2000, 62, .	4.7	17
71	Direct CP violation searches in charmless hadronic B meson decays. <i>Physical Review D</i> , 2002, 65, .	4.7	17
72	A Passive Microfluidic Device for Chemotaxis Studies. <i>Micromachines</i> , 2019, 10, 551.	2.9	16

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73	First direct observation of the decay of neutral charmed particles produced by neutrinos in emulsion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1979, 87, 287-291.	4.1	15
74	Observation of a second charmed particle produced by a high energy neutrino and decaying after a few times 10^{-13} s. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1979, 80, 428-432.	4.1	15
75	Experimental study of B production $\bar{\nu}$ -U interactions at 320 GeV energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 202, 453-457.	4.1	15
76	Arrival time distributions of very high energy cosmic ray muons in MACRO. Nuclear Physics B, 1992, 370, 432-444.	2.5	14
77	Observation of the shadowing of cosmic rays by the Moon using a deep underground detector. Physical Review D, 1998, 59, .	4.7	14
78	Comparison of glass and plastic scintillating microfibres for high-resolution tracking. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 295, 299-314.	1.6	13
79	WA84 experiment: A beauty search with a scintillating-fibre microvertex detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 289, 342-350.	1.6	13
80	Measurement of D_s^+ and D_s^{*+} production in B meson decays and from continuum e^+e^- annihilation at $\sqrt{s}=10.6$ GeV. Physical Review D, 2002, 65, .	4.7	13
81	A Disposable Passive Microfluidic Device for Cell Culturing. Biosensors, 2020, 10, 18.	4.7	13
82	B inclusive cross section in 320 GeV $\bar{\nu}$ -uranium interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 231, 328-334.	4.1	11
83	High-resolution tracking with scintillating fibres. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 277, 132-137.	1.6	11
84	Measurement of relative branching fractions for $D^+ \rightarrow K^+ K^+$ and $D_s^+ \rightarrow \bar{K}^+ K^+$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 305, 177-181.	4.1	11
85	Measurement of the B^0 Lifetime with Partially Reconstructed $B^0 \rightarrow D^{*+} \pi^-$ Decays. Physical Review Letters, 2002, 89, 011802.	7.8	11
86	Submicrometer Zeolite Films on Gold-Coated Silicon Wafers with Single-Crystal-Like Dielectric Constant and Elastic Modulus. Advanced Functional Materials, 2017, 27, 1700864.	14.9	11
87	Study of CP-violating asymmetries in $B^0 \rightarrow \bar{K}^+ K^+$ decays. Physical Review D, 2002, 65, .	4.7	10
88	A muon spectrometer with calorimeter dump used for the beauty search at the CERN super proton synchrotron. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1987, 253, 222-234.	1.6	9
89	Search for the Decay $B^0 \rightarrow \bar{K}^+ \pi^0$. Physical Review Letters, 2001, 87, 241803.	7.8	9
90	A combined analysis technique for the search for fast magnetic monopoles with the MACRO detector. Astroparticle Physics, 2002, 18, 27-41.	4.3	9

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91	Search for cosmic ray sources using muons detected by the MACRO experiment. <i>Astroparticle Physics</i> , 2003, 18, 615-627.	4.3	9
92	Search for stellar gravitational collapses with the MACRO detector. <i>European Physical Journal C</i> , 2004, 37, 265-272.	3.9	9
93	Production and test of monitored drift tubes for the muon spectrometer of the ATLAS experiment. <i>IEEE Transactions on Nuclear Science</i> , 2002, 49, 1077-1079.	2.0	8
94	A powerful simulation tool for medical physics applications: Geant4. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003, 125, 80-84.	0.4	8
95	Energy dependence of two-particle rapidity correlations in proton-nucleus interactions. <i>Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica</i> , 1977, 18, 352-354.	0.4	7
96	The NOE detector for a long baseline neutrino oscillation experiment. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1999, 70, 223-226.	0.4	7
97	Influence of the Fabrication Accuracy of Hot-Embossed PCL Scaffolds on Cell Growths. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 84.	4.1	7
98	Comparative study of inclusive correlation functions in proton interactions on emulsion nuclei. <i>Nuclear Physics B</i> , 1978, 135, 405-415.	2.5	6
99	Curvative measurements in nuclear emulsions. <i>Nuclear Instruments & Methods in Physics Research</i> , 1981, 187, 387-391.	0.9	6
100	An acquisition system based on a network of microVAX's running the real time DEC VAXELN operating system. <i>IEEE Transactions on Nuclear Science</i> , 1989, 36, 1602-1607.	2.0	6
101	The BaBar drift chamber. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998, 419, 310-314.	1.6	6
102	Performance of a sampling calorimeter with alternate U and Fe absorbers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1986, 248, 326-330.	1.6	5
103	Monopole trigger for the streamer tube system in macro. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1988, 263, 249-254.	1.6	5
104	The BaBar drift chamber project. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998, 409, 46-52.	1.6	5
105	Measurement of the branching fractions for $\bar{\nu}(2S) \rightarrow e + \bar{\nu}$ and $\bar{\nu}(2S) \rightarrow \frac{1}{4} + \frac{1}{4}$. <i>Physical Review D</i> , 2001, 65, .	4.7	5
106	Study of $B \rightarrow \pi \ell^+ \ell^-$ and $B \rightarrow K \ell^+ \ell^-$ decays: Measurement of the ratio of branching fractions and search for direct CP-violating charge asymmetries. <i>Physical Review D</i> , 2002, 65, .	4.7	5
107	Dosimetry of High Intensity Electron Beams Produced by Dedicated Accelerators in Intra-Operative Radiation Therapy (IORT). <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 66-72.	2.0	5
108	The track-etch detector of the macro experiment. <i>International Journal of Radiation Applications and Instrumentation Part D, Nuclear Tracks and Radiation Measurements</i> , 1988, 15, 331-336.	0.5	4

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109	Application of a scintillating-fibre detector to the study of short-lived particles. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 310, 485-489.	1.6	4
110	The NOE scintillating fiber calorimeter prototype test results. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 456, 259-271.	1.6	4
111	Intra-Operative Radiotherapy with Electron Beam. , 2012, , .		4
112	Search for antimatter in cosmic radiation. A matter-antimatter space spectrometer. Il Nuovo Cimento A, 1986, 93, 311-324.	0.2	3
113	Coincident observation of air Čerenkov light by a surface array and muon bundles by a deep underground detector. Physical Review D, 1994, 50, 3046-3058.	4.7	2
114	Relevance of the hadronic interaction model in the interpretation of multiple muon data as detected with the MACRO experiment. Nuclear Physics, Section B, Proceedings Supplements, 1999, 75, 265-268.	0.4	2
115	Wavelength-shifting fibers for calorimetric measurements in a long base line neutrino oscillation experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 457, 447-453.	1.6	2
116	A transition radiation detector interleaved with low-density targets for the NOE experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 459, 108-122.	1.6	2
117	Dosimetric Study of Therapeutic Beams Using a Homogeneous Scintillating Fiber Layer. IEEE Transactions on Nuclear Science, 2013, 60, 109-114.	2.0	2
118	New results on WA71 TPC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1985, 235, 279-284.	1.6	1
119	A-dependence of low-mass muon pair production in 300 GeV/c p and 320 GeV/c Ā interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 213, 395-399.	4.1	1
120	Rejuvenation of a data acquisition system for fixed target experiments in a large multiuser spectrometer at CERN. IEEE Transactions on Nuclear Science, 1990, 37, 266-270.	2.0	1
121	Use of a high-resolution, scintillating-fibre, tracking detector in recording Ā-nucleon interactions at Ā 26 GeV. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 315, 67-73.	1.6	1
122	Study of ionization losses in He-based gas mixtures. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 423, 342-355.	1.6	1
123	Calibrations of CR39 and Makrofol nuclear track detectors and search for exotic particles. Nuclear Physics, Section B, Proceedings Supplements, 2003, 125, 217-221.	0.4	1
124	New developments of the emulsion technique in hybrid experiments. International Journal of Radiation Applications and Instrumentation Part D, Nuclear Tracks and Radiation Measurements, 1984, 8, 71-74.	0.3	0
125	Results on charm hadroproduction from CERN experiment WA82. AIP Conference Proceedings, 1992, , .	0.4	0
126	High energy cosmic ray physics with the MACRO experiment at Gran Sasso. Nuclear Physics, Section B, Proceedings Supplements, 1997, 52, 172-175.	0.4	0

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127	NOE: a long baseline neutrino detector. Nuclear Physics, Section B, Proceedings Supplements, 1998, 66, 428-431.	0.4	0
128	Quality Control of Ionizing Radiation in Radiotherapy. , 0, , .		0
129	Hadroproduction of $D^+ D^-$ Pairs in the Interaction of 350 GeV/c $\pi^+ \pi^-$ Mesons with Nuclei. Progress of Theoretical Physics, 1992, 88, 621-621.	2.0	0