

# Eda ÅahÄ°n

## List of Publications by Year in descending order

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Version: 2024-02-01

213  
papers

3,481  
citations

126907

33  
h-index

197818

49  
g-index

214  
all docs

214  
docs citations

214  
times ranked

1671  
citing authors

#	ARTICLE	IF	CITATIONS
1	A first glimpse at the shell structure beyond 54Ca: Spectroscopy of 55K, 55Ca, and 57Ca. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136953.	4.1	4
2	Nature of seniority symmetry breaking in the semimagic nucleus $^{94}\text{Ru}$ . Physical Review C, 2022, 105, .	7.8	12
3	First spectroscopic study of 51Ar by the (p,2p) reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136108.	4.1	5
4	Strong enhancement of level densities in the crossover from spherical to deformed neodymium isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136206.	4.1	8
5	Manifestation of the Berry phase in the atomic nucleus $^{213}\text{Pb}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136183.	4.1	8
6	First spectroscopic study of doubly magic $^{63}\text{Ni}$ at the $N=Z$ crossing. Physical Review C, 2021, 104, .	2.9	4
7	Railing Forces Govern Population of Doubly Magic $^{40}\text{Ca}$ from Direct Reactions. Physical Review Letters, 2021, 126, 252501.	7.8	11
8	Persistence of the Z=28 shell gap in A=75 isobars: Identification of a possible $(1/2^+)^{1/4s}$ isomer in $^{75}\text{Co}$ and $^{75}\text{Ni}$ decay to $^{75}\text{Ni}$ . Physical Review C, 2021, 103, .	2.9	2
9	Three-quasiparticle isomers in odd-even $^{159,161}\text{Pm}$ : Calling for modified spin-orbit interaction for the neutron-rich region. Physical Review C, 2021, 104, .	2.9	2
10	Transition probabilities in $^{31}\text{P}$ and $^{31}\text{S}$ : A test for isospin symmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 821, 136603.	4.1	5
11	Nonlinear optics in ultra-silicon-rich nitride devices: recent developments and future outlook. Advances in Physics: X, 2021, 6, .	4.1	13
12	Comprehensive Test of the Brink-Axel Hypothesis in the Energy Region of the Pygmy Dipole Resonance. Physical Review Letters, 2021, 127, 182501.	7.8	14
13	Investigation of the ground-state spin inversion in the neutron-rich $^{47}\text{Cl}$ isotopes. Physical Review C, 2021, 104, .	2.9	6
14	Impact of Restricted Spin-Ranges in the Oslo Method: The Example of (d,p) $^{240}\text{Pu}$ . Springer Proceedings in Physics, 2021, , 195-202.	0.2	1
15	Shell evolution of $N=Z=40$ isotones towards $^{60}\text{Ca}$ : First spectroscopy of $^{62}\text{Ti}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135071.	4.1	32
16	Transition strengths in the neutron-rich $^{73,74,75}\text{Ni}$ isotopes. Physical Review C, 2020, 102, .	2.9	7
17	Radiative Width of the Hoyle State from $^{13}\text{C}$ -Ray Spectroscopy. Physical Review Letters, 2020, 125, 182701.	7.8	26

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19	<p>of <math>P</math> decay</p> <p>of <math>Ni</math> and the systematics of the low-lying level structure of neutron-rich odd- <math>Cu</math> isotopes.</p> <p>Spectroscopy of neutron-rich scandium isotopes. Journal of Physics: Conference Series, 2020, 1555, 012026.</p>	2.9	4
20	<p>Shape coexistence revealed in the <math>Z=72</math> isotope <math>Kr</math> through inelastic scattering. European Physical Journal A, 2020, 56, 1.</p>	0.4	0
21	<p>Shell structure of the neutron-rich isotopes <math>Co</math></p>	2.5	16
22	<p>Sequential <math>\beta</math> decay of <math>Tm</math></p>	2.9	10
23	<p>Review Letters, 2020, 125, 012501.</p>	2.9	10
24	<p>First application of the Oslo method in inverse kinematics. European Physical Journal A, 2020, 56, 1.</p>	2.5	13
25			





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73	Large, scalable dispersion engineering using cladding-modulated Bragg gratings on a silicon chip. Applied Physics Letters, 2017, 110, .	3.3	50
74	Type II shell evolution in A = 70 isobars from the N = 40 island of inversion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 765, 328-333.	4.1	33
75	Nuclear level densities and $\beta^3$ -ray strength functions of 180,181Ta and neutron capture cross sections. EPJ Web of Conferences, 2017, 146, 01010.	0.3	1
76	Neutron effective single-particle energies above $Z = 20$ : A hint from lifetime measurements in the $Z = 20$ isotones. Physical Review C, 2017, 96, .	2.9	4
77	High-spin structures in Xe132 and Xe133 and evidence for isomers along the N=79 isotones. Physical Review C, 2017, 96, .	2.9	9
78	High-spin structures in Xe132 and Xe133 and evidence for isomers along the N=79 isotones. Physical Review C, 2017, 96, .	2.9	12
79	High-spin states and lifetimes in S33 and shell-model interpretation in the sd $\nu$ fp space. Physical Review C, 2017, 96, .	2.9	4
80	Shell evolution beyond Z = 28 and N = 50: Spectroscopy of 81,82,83,84 Zn. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 492-497.	4.1	29
81	Investigating the $\beta^3$ decay of Ni65 from particle- $\beta^3$ coincidence data. Physical Review C, 2017, 96, .	2.9	10
82	Investigating the $\beta^3$ decay of Ni65 from particle- $\beta^3$ coincidence data. Physical Review C, 2017, 96, .	2.9	12
83	Persistence of the Z = 20 shell gap around the N = 28 shell gap. Physical Review C, 2017, 95, .	2.9	62
84	Observation of new neutron-rich Mn, Fe, Co, Ni, and Cu isotopes in the vicinity of the N = 28 shell gap. Physical Review C, 2017, 95, .	2.9	21
85	Energy dependence of the prompt $\beta^3$ -ray emission from the (d,p)-induced fission of U*234 and Pu*240. Physical Review C, 2017, 96, .	2.9	10
86	Energy dependence of the prompt $\beta^3$ -ray emission from the (d,p)-induced fission of U*234 and Pu*240. Physical Review C, 2017, 96, .	2.9	15
87	Gamma Decay of Unbound Neutron-Hole States in Sn133. Physical Review Letters, 2017, 118, 202502.	7.8	22
88	Gamma Decay of Unbound Neutron-Hole States in Sn133. Physical Review Letters, 2017, 118, 202502.	7.8	30
89	Shell Evolution towards the N = 28 shell gap. Physical Review C, 2017, 95, .	7.8	29
90	Low-Lying States in the N = 28 Shell Gap. Physical Review C, 2017, 95, .	7.8	29



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109	Decay properties of 68,69,70 Mn: Probing collectivity up to N = 44 in Fe isotopic chain. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 107-112.	4.1	17
110	$\beta^3$ decay from the quasicontinuum of Au197,198. Physical Review C, 2015, 91, .	2.9	11
111	Lifetime measurement for the 21+ state in Sm140 and the onset of collectivity in neutron-deficient Sm isotopes. Physical Review C, 2015, 92.	2.9	10
112	Light and heavy transfer products in $^{136}\text{Xe} + ^{136}\text{Li}$ reaction. Physical Review C, 2015, 92.	2.9	10
113	Transition probabilities in neutron-rich $^{140}\text{Ba}$ and $^{140}\text{La}$ isotopes. Physical Review C, 2015, 92.	2.9	5
114	Transition probabilities in neutron-rich $^{84}\text{Se}$ and $^{86}\text{Se}$ isotopes. Physical Review C, 2015, 92.	2.9	25
115	Isospin Mixing in $^{50}\text{Ni}$ and $^{50}\text{Zr}$ isotopes. Physical Review C, 2015, 92.	7.8	77
116	Isospin Mixing in $^{80}\text{Zr}$ and $^{80}\text{Ni}$ isotopes. Physical Review C, 2015, 92.	7.8	22
117	Two-hole structure outside $^{240}\text{U}$ following multinucleon-transfer. Physical Review C, 2015, 92.	2.9	10
118	Existence of a $^{78}\text{Ni}$ isomer. Physical Review C, 2015, 92.	2.9	18
119	Observation of low-lying resonances in the quasicontinuum of $^{195}\text{Pt}$ and enhanced astrophysical reaction rates. EPJ Web of Conferences, 2015, 93, 01039.	0.3	3
120	The statistical properties of $^{111}\text{Sn}$ , $^{112}\text{Sn}$ , $^{113}\text{Sn}$ studied with the Oslo method. EPJ Web of Conferences, 2015, 93, 04004.	0.3	0
121	First evidence of low energy enhancement in Ge isotopes. EPJ Web of Conferences, 2015, 93, 04003.	0.3	1
122	Statistical nuclear properties and synthesis of $^{138}\text{La}$ . EPJ Web of Conferences, 2015, 93, 04005.	0.3	0
123	Systematic Study of $\beta^2$ -Decay Properties in the Vicinity of $^{78}\text{Ni}$ . , 2015, , .		0
124	Galactic production of $^{138}\text{La}$ : Impact of $^{138}\text{La}$ , $^{139}\text{La}$ statistical properties. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 268-272.	4.1	37
125	Experimental level densities of atomic nuclei. European Physical Journal A, 2015, 51, 1.	2.5	38
126	Single-neutron orbits near $^{78}\text{Ni}$ : Spectroscopy of the $^{79}\text{Zn}$ isotope. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 740, 298-302.	4.1	27

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127	Shell evolution beyond $Zr$	2.9	33
128	Physical Review C, 2015, 91, .	2.9	26
129	Analyzing power of AGATA triple clusters for gamma-ray linear polarization. European Physical Journal A, 2015, 51, 1.	2.5	11
130	Study of shape transition in the neutron-rich Os isotopes. EPJ Web of Conferences, 2014, 66, 02057.	0.3	0
131	New Isomers in the Neutron-Rich Region Beyond $208Pb$ . EPJ Web of Conferences, 2014, 66, 02043.	0.3	0
132	Evolution of collectivity in the $78Ni$ region: Coulomb excitation of $74Ni$ at intermediate energies.. EPJ Web of Conferences, 2014, 66, 02066.	0.3	2
133	AGATA modules as Compton polarimeters for the measurement of gamma-ray linear polarisation. EPJ Web of Conferences, 2014, 66, 11004.	0.3	2
134	Electromagnetic transition strengths in $^{33}S$ . Journal of Physics: Conference Series, 2014, 533, 012049.	0.4	1
135	Isomer Decay Spectroscopy of $^{164}Sm$	7.8	50
136	Experimental study of neutron-rich nuclei near the $N = 82$ closed shell using the $4096Zr+50124Sn$ reaction with GASP and PRISMA-CLARA arrays. , 2014, , .		0
137	Spectroscopy on the proton drip-line: Probing the structure dependence of isospin nonconserving interactions. Physical Review C, 2014, 90, .	2.9	17
138	Quadrupole Transition Strength in the $^{74}Ni$ Nucleus and Core Polarization Effects in the Neutron-Rich Ni Isotopes. Physical Review Letters, 2014, 113, 182501.	7.8	15
139	Level densities and thermodynamical properties of Pt and Au isotopes. Physical Review C, 2014, 90, .	2.9	13
140	High-spin level structure of $^{35}S$ . Physical Review C, 2014, 89, .	2.9	14
141	Identification and rejection of scattered neutrons in AGATA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 735, 267-276.	1.6	4
142	$I^{\pi}$ -decay studies of neutron-rich Tl, Pb, and Bi isotopes. Physical Review C, 2014, 89, .	2.9	32
143	Shell-gap-reduced level densities in $^{90}Pb$	2.9	13
144	Isospin Character of Low-Lying Pygmy Dipole States in $^{208}Pb$ via Inelastic Scattering of $^{208}Pb$	7.8	59

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145	Isomeric decay spectroscopy of the $^{217}\text{Bi}$ isotope. Physical Review C, 2014, 89, 014301.	2.9	8
146	Shape evolution in the neutron-rich osmium isotopes: Prompt $^{196}\text{Os}$ $\gamma$ -ray spectroscopy of $^{196}\text{Os}$ . Physical Review C, 2014, 89, 014302.	2.9	23
147	Decay Half-Lives of $^{76}\text{Co}$ Isotopes. Physical Review C, 2014, 89, 014303.	7.8	103
148	Counting rate measurements for lifetime experiments using the RDDS method with the new generation $\hat{I}^3$ -ray array AGATA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 758, 1-3.	1.6	1
149	Study of the $\hat{I}^3$ decay of high-lying states in $^{208}\text{Pb}$ via inelastic scattering of $^{17}\text{O}$ ions. EPJ Web of Conferences, 2014, 66, 02023.	0.3	0
150	Statistical gamma-ray emission of gold and its astrophysical implications. EPJ Web of Conferences, 2014, 66, 02041.	0.3	1
151	Level-scheme investigation of $^{33}\text{S}$ . Journal of Physics: Conference Series, 2014, 533, 012050.	0.4	1
152	Lifetime Measurements of Short Lived States in $^{69}\text{As}$ . Acta Physica Polonica B, 2014, 45, 235.	0.8	2
153	Systematic Study of $\hat{I}^2$ -Decay Half-Lives in the Vicinity of $^{78}\text{Ni}$ . , 2014, , .		0
154	New $\hat{I}^4_{\text{s}}$ isomers in the neutron-rich $^{210}\text{Hg}$ nucleus. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 725, 292-296.	4.1	18
155	Lifetime Measurements of Short Lived States in $^{66}\text{Ge}$ . Acta Physica Polonica B, 2013, 44, 501.	0.8	2
156	Lifetime Measurements in Neutron-rich Cu Isotopes. Acta Physica Polonica B, 2013, 44, 505.	0.8	5
157	Towards the Determination of Superdeformation in $^{42}\text{Ca}$ . Acta Physica Polonica B, 2013, 44, 617.	0.8	6
158	Collective nature of low-lying excitations in $^{70}\text{K}$ from lifetime measurements using the AGATA spectrometer demonstrator. Physical Review C, 2013, 87, 014304.	2.9	50
159	$^{74}\text{K}$ hindrance probed by the $^{74}\text{K}$ $\gamma$ decay of the warm rotating $^{74}\text{K}$ nucleus. Physical Review C, 2013, 88, 014305.	2.9	11
160	Quadrupole Collectivity in Neutron-Rich Fe and Cr Isotopes. Physical Review Letters, 2013, 110, 242701.	7.8	77
161	Structure of chlorine isotopes populated by heavy ion transfer reactions. Physical Review C, 2013, 87, 014306.	2.9	29
162	Lifetime measurements in neutron-rich $^{63,65}\text{Co}$ isotopes using the AGATA demonstrator. Physical Review C, 2013, 88, 014307.	2.9	15

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163	Probing core polarization around $^{78}\text{Ni}$ : intermediate energy Coulomb excitation of $^{74}\text{Ni}$ . EPJ Web of Conferences, 2013, 63, 01021.	0.3	1
164	Lifetime measurements on fission fragments in the $A \approx 100$ region. EPJ Web of Conferences, 2013, 62, 01002.	0.3	3
165	Toward the $N = 40$ sub-shell closure in Co isotopes and the new island of inversion. Physica Scripta, 2012, T150, 014034.	2.5	4
166	Response function of the magnetic spectrometer PRISMA for the multinucleon transfer reaction $^{40}\text{Ar} + ^{208}\text{Pb}$ . , 2012, , .		2
167	Lifetime measurements of high-lying short lived states in $^{69}\text{As}$ . , 2012, , .		0
168	Reaction dynamics and nuclear structure of moderately neutron-rich Ne isotopes by heavy-ion reactions. Physical Review C, 2012, 85, .	2.9	17
169	$\hat{I}^3$ spectroscopy of calcium nuclei around doubly magic $^{48}\text{Ca}$ using heavy-ion transfer reactions. Physical Review C, 2012, 85, .	2.9	56
170	Spectroscopy of odd-mass cobalt isotopes toward the subshell closure and shell-model description of spherical and deformed states. Physical Review C, 2012, 85, .	2.9	61
171	New Isomers in the Full Seniority Scheme of Neutron-Rich Lead Isotopes: The Role of Effective Three-Body Forces. Physical Review Letters, 2012, 109, 162502.	7.8	56
172	Discovery of a new isomeric state in $^{68}\text{Ni}$ : Evidence for a highly deformed proton intruder state. Physical Review C, 2012, 85, .	2.9	43
173	$\hat{I}^2$ decay of $^{102}\text{Y}$ produced in projectile fission of $^{238}\text{U}$ . Journal of Physics: Conference Series, 2012, 381, 012053.	0.4	1
174	Spectroscopy of neutron-rich Co nuclei populated in the $^{70}\text{Zn} + ^{238}\text{U}$ reaction. Journal of Physics: Conference Series, 2012, 381, 012082.	0.4	0
175	Study of the Order-to-Chaos transition in $^{174}\text{W}$ with the AGATA-Demonstrator. Journal of Physics: Conference Series, 2012, 366, 012045.	0.4	0
176	First measurement of beta decay half-lives in neutron-rich Tl and Bi isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 715, 293-297.	4.1	34
177	Structure of the As, Ge, Ga nuclei. Nuclear Physics A, 2012, 893, 1-12.	1.5	22
178	Shape isomerism and shape coexistence effects on the Coulomb energy differences in the $N = Z$ nucleus $^{66}\text{As}$ and neighboring $T = 1$ multiplets. Physical Review C, 2012, 85, .	2.9	11
179	High-spin structure in $^{40}\text{K}$ . Physical Review C, 2012, 86, .	2.9	7
180	High-spin structure and intruder excitations in $^{36}\text{Cl}$ . Physical Review C, 2012, 86, .	2.9	14

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181	Response of AGATA segmented HPGe detectors to gamma-rays up to 15.1 MeV. , 2011, , .		0
182	Quasi-elastic reactions: an interplay of reaction dynamics and nuclear structure. EPJ Web of Conferences, 2011, 17, 03005.	0.3	1
183	Lifetime measurements in mirror nuclei <sup>31</sup> S and <sup>31</sup> P: A test for isospin mixing. Journal of Physics: Conference Series, 2011, 267, 012048.	0.4	6
184	Isomers in neutron-rich lead isotopes populated via the fragmentation of <sup>238</sup> U at 1 GeV A. Journal of Physics: Conference Series, 2011, 312, 092026.	0.4	1
185	Conceptual design and infrastructure for the installation of the first AGATA sub-array at LNL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 654, 88-96.	1.6	117
186	Interaction position resolution simulations and in-beam measurements of the AGATA HPGe detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 638, 96-109.	1.6	44
187	Probing the nature of particle-core couplings in <sup>49</sup> Ca with <sup>13</sup> spectroscopy and heavy-ion transfer reactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 697, 288-293.	4.1	48
188	Lifetime measurements in <sup>63</sup> Coand <sup>65</sup> Co. Physical Review C, 2011, 83, .	2.9	16
189	Coupling of the proton-hole and neutron-particle states in the neutron-rich <sup>48</sup> K isotope. Physical Review C, 2011, 84, .	2.9	9
190	Interplay between single-particle and collective excitations in argon isotopes populated by transfer reactions. Physical Review C, 2011, 84, .	2.9	53
191	Evolution of the Ar isotopic chain: the N=28 shell gap south of <sup>48</sup> Ca. Nuclear Physics A, 2010, 834, 69c-71c.	1.5	6
192	Lifetime measurements of excited states in neutron-rich $^{44}\text{Ar}$ via a multinucleon transfer reaction. Physical Review C, 2010, 82, .	2.9	48
193	Yrast band evolution close to the $^{168}\text{Dy}$	2.9	29
194	Proton-hole states in theN=30neutron-rich isotope <sup>49</sup> K. Physical Review C, 2010, 82, .	2.9	16
195	Onset of collectivity in neutron-rich Fe isotopes: Toward a new island of inversion?. Physical Review C, 2010, 81, .	2.9	109
196	Quasi-elastic reactions : a survey on recent results. , 2010, , .		0
197	Spectroscopic studies with the PRISMA-CLARA set-up. Journal of Physics: Conference Series, 2010, 205, 012038.	0.4	2
198	Lifetime Measurements of the Neutron-Rich $^{50}\text{Ca}$ Isotones	7.8	78

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199	<p>Article: Lifetime Measurements of the Neutron-Rich <math>^{30}\text{N}</math> Isotones</p> <p>Article content: <math display="block">N = 30</math></p>	7.8	0
200	The Magnetic Spectrometer PRISMA Combined With Large Gamma Arrays. , 2009, , .		0
201	[sup 67]As-[sup 67]Se mirror pair spectroscopy. , 2009, , . Coherent Contributions to Isospin Mixing in the Mirror Pair		0
202	Article: $^{67}\text{As}$ and $^{67}\text{Se}$ mirror pair spectroscopy	7.8	26
203	Decay of a narrow and high spin $^{24}\text{Mg} + ^{24}\text{Mg}$ resonance. Nuclear Physics A, 2008, 801, 1-20.	1.5	42
204	Lifetime measurements using the CLARA-PRISMA setup around the $^{48}\text{Ca}$ doubly-magic nucleus. , 2008, , .		0
205	Investigation of nuclear shell structure far from stability in the region of $^{78}\text{Ni}$ . , 2008, , .		0
206	Nuclear Structure far from stability at the $N = 50$ Shell Closure. AIP Conference Proceedings, 2008, , .	0.4	3
207	Article: Spectroscopy of neutron-rich $^{59}\text{Mn}$	2.9	47
208	Molecular resonances and the Jacobi shape transition in $^{48}\text{Cr}$ . Journal of Physics: Conference Series, 2008, 111, 012053.	0.4	0
209	B(E1) strengths and isospin symmetry in $^{67}\text{As}$ and $^{67}\text{Se}$ . AIP Conference Proceedings, 2007, , .	0.4	0
210	The PRISMA-CLARA setup: experimental results and future plans. AIP Conference Proceedings, 2007, , .	0.4	0
211	Article: Question of dynamic chirality in nuclei: The case of $^{134}\text{Pr}$	2.9	62
212	The heavy-ion magnetic spectrometer PRISMA. European Physical Journal: Special Topics, 2007, 150, 359-361.	2.6	1
213	The new Heavy-ion MCP-based Ancillary Detector DANTE for the CLARA-PRISMA Setup. AIP Conference Proceedings, 2006, , .	0.4	2