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GANIL

Laboratoire commun CEA / DSM - CNRS / IN²P³

GROUPE PHYSIQUE
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Journal	Impact Factor *	Nombre	%
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Physical Review Letters		12	
Physics Letters B		4	
Physical Review E		2	
Physical Review C		17	
J. Phys. G : Nucl. Part. Phys.		4	
Eur. Phys. J. A		1	
Nuclear Physics A		13	
Review of Scientific Instruments		7	
NIM A		4	
NIM B		19	
Int. J. Modern Physics E		7	
Progress in Particle and Nuclear Physics		2	
Acta Physica Polonica B		3	
IEEE Transaction on Nuclear Science		1	
Revista Mexicana de Fisica		1	
AIP Conference Proceedings	nr	13	
Journal of Physics : Conference Series	nr	1	
Proceedings of EPAC 2008	nr	2	
Proceedings of PCaPAC08	nr	1	
Proceedings of ECRIS	nr	2	
		116	

*J.C.R. ()

PHYSIQUE NUCLEAIRE

g factor of the exotic N=21 isotope ^{34}Al : probing the N=20 and N=28 shell gaps at the border of the island of inversion

Himpe P., Neyens G., Balabanski D.L., Bélier G., Daugas J.M., de Oliveira Santos F., De Rydt M., Flanagan K.T., Matea I., Morel P., Penionzhkevich Yu.E., Perrot L., Smirnova N.A., Stodel C., Thomas J.C., Vermeulen N., Yordanov D.T., Utsuno Y., Otsuka T.

Physics Letters B, 658 (2008) 203-208

08 01 A

<http://hal.in2p3.fr/in2p3-00192490/fr/>

Virtual coupling potential for elastic scattering of $^{10,11}\text{Be}$ on proton and carbon targets

V. Lapoux, N. Alamanos, F. Auger, Y. Blumenfeld, J.-M. Casandjian, M. Chartier, M.D. Cortina-Gil, V. Fékou-Youmbi, A. Gillibert, M. Mac Cormic, F. Maréchal, F. Marie, W. Mittig, F. De Oliveira Santos, N.A. Orr, A.N. Ostrowski, S. Ottini-Hustache, P. Roussel-Chomaz, J.-A. Scarpaci, J.-L. Sida, T. Suomijärvi, J.S. Winfield

Physics Letters B, 658 (2008) 198-202

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<http://hal.in2p3.fr/in2p3-00189364/fr/>

Source shape determination with directional fragment-fragment velocity correlations

A. Le Fevre, C. Schwarz, G. Auger, M. L. Begemann-Blaich, N. Bellaize, R. Bittiger, F. Bocage, B. Borderie, R. Bougault, B. Bouriquet, J. L. Charvet, A. Chbihi, R. Dayras, D. Durand, J. D. Frankland, E. Galichet, D. Gourio, D. Guinet, S. Hudan, P. Lantesse, F. Lavaud, R. Legrain, O. Lopez, J. Lukasik, U. Lynen, W. F. J. Mueller, L. Nalpas, H. Orth, E. Plagnol, E. Rosato, A. Saija, C. Sfienti, B. Tamain, W. Trautmann, A. Trzcinski, K. Turzo, E. Vient, M. Vigilante, C. Volant, B. Zwieglinski

ALADIN, INDRA Collaboration(s)

Physics Letters B, 659 (2008) 807-812

08 03 A

<http://hal.in2p3.fr/in2p3-00186887/fr/>

Coincidence measurement of residues and light particles in the reaction $^{56}\text{Fe} + p$ at 1 GeV per nucleon with SPALADIN

E. Le Gentil, T. Aumann, C. O. Bacri, J. Benlliure, S. Bianchin, M. Böhmer, A. Boudard, J. Brzychczyk, E. Casarejos, M. Combet, L. Donadille, J. E. Ducret, M. Fernandez-Ordoñez, R. Gernhäuser, H. Johansson, K. Kezzar, T. Kurtukian-Nieto, A. Lafriakh, F. Lavaud, A. Le Fèvre, S. Leray, J. Lühning, J. Lukasik, U. Lynen, W. F. Müller, P. Pawlowski, S. Pietri, F. Rejmund, C. Schwarz, C. Sfienti, H. Simon, W. Trautmann, C. Volant, O. Yordanov

Physical Review Letters, 100 (2008) 022701

08 04 A

<http://hal.in2p3.fr/in2p3-00166723/fr/>

Evidence for core excitation in single-particle states of ^{19}Na

M.G. Pellegriti, N.L. Achouri, C. Angulo, J.-C. Angélique, E. Berthoumieux, E. Casarejos, M. Couder, T. Davinson, C. Ghag, A.St. Murphy, N.A. Orr, I. Ray, I.G. Stefan, P. Descouvemont

Physics Letters B, 659 (2008) 864-869

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<http://hal.in2p3.fr/in2p3-00202877/fr/>

Centrality dependence of isospin effect signatures in $^{124}\text{Sn} + ^{64}\text{Ni}$ and $^{112}\text{Sn} + ^{58}\text{Ni}$ reactions

R. Planeta, F. Amorini, A. Anzalone, L. Auditore, V. Baran, A. Benisz, I. Berceanu, A. Bonasera, B. Borderie, J. Borgensztajn, R. Bougault, M. Bruno, J. Brzychczyk, G. Cardella, S. Cavallaro, M. B. Chatterjee, A. Chbihi, M. Colonna, M. D'Agostino, R. Dayras, E. De Filippo, M. Di Toro, J. Frankland, E. Galichet, W. Gawlikowicz, E. Geraci, G. Giuliani, F. Giustolisi, A. Grzeszczuk, P. Guazzoni, D. Guinet, S. Kowalski, M. Krauze, E. La Guidara, G. Lanzano, G. Lanzalone, N. Le Neindre, J. Lukasik, C. Maiolino, Z. Majka, N.G. Nicolis, A. Pagano,

M. Papa, M. Petrovici, E. Piasecki, S. Pirrone, G. Politi, A. Pop, F. Porto, M.F. Rivet, E. Rosato, F. Rizzo, P. Russotto, K. Schmidt, K. Siwek-Wilczynska, I. Skwira-Chalot, A. Sochocka, L. Swiderski, A. Trifiro, M. Trimarchi, G. Vannini, M. Vigilanti, J.P. Wieleczko, J. Wilczynski, L. Zetta, W. Zipper

ISOSPIN Collaboration(s)

Physical Review C 77 (2008) 014610

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<http://hal.in2p3.fr/in2p3-00213448/fr/>

First Measurement of the Giant Monopole and Quadrupole Resonances in a Short-Lived Nucleus: ^{56}Ni

C. Monrozeau, E. Khan, Y. Blumenfeld, C. E. Demonchy, W. Mittig, P. Roussel-Chomaz, D. Beaumel, M. Caamaño, D. Cortina-Gil, J. P. Ebran, N. Frascaria, U. Garg, M. Gelin, A. Gillibert, D. Gupta, N. Keeley, F. Maréchal, A. Obertelli, J.-A. Scarpaci

Physical Review Letters 100 (2008) 042501

08 09 A

<http://hal.in2p3.fr/in2p3-00238507/fr/>

Light radio-isotopes for nuclear astrophysics and neutrino physics

M. Hass, D. Berkovits, T.Y. Hirsh, V. Kumar, M. Lewitowicz, F. De Oliveira, S. Veintraub
SPIRAL2 Collaboration(s)

J. Phys. G 35 (2008) 014042

Nuclear Physics in Astrophysics III, Dresden, 26-31 mars 2007

08 12 A

<http://hal.in2p3.fr/in2p3-00214239/fr/>

Coulomb dissociation of ^8Be and ^6Li

Typel S.

Nuclear Physics in Astrophysics III, Dresden, 26-31 mars 2007

J. Phys. G 35 (2008) 014003

08 13 A

<http://hal.in2p3.fr/in2p3-00261024/fr/>

Indirect measurement of the $^{18}\text{O}(p, \alpha)^{15}\text{N}$ reaction rate through the THM

M. La Cognata, C. Spitaleri, R. E Tribble, T. Al-Abdullah, A. Banu, S. Cherubini, V. Crucillà, C. Fu, V. Goldberg, M. Gulino, L. Lamia, A. Mukhamedzhanov, R. G Pizzone, S. M R Puglia, G. G Rapisarda, S. Romano, M. L Sergi, G. Tabacaru, L. Trache, S. Tudisco, A. Tumino, S. Typel, Y. Zhai

J. Phys. G 35 (2008)

Nuclear Physics in Astrophysics III, Dresden, 26-31 mars 2007

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<http://hal.in2p3.fr/in2p3-00261039/fr/>

Coulomb dissociation, a tool for nuclear astrophysics

Baur G., Typel S.

J. Phys. G 35 (2008) 014028

Nuclear Physics in Astrophysics III, Dresden, 26-31 mars 2007

08 15 A

<http://hal.in2p3.fr/in2p3-00261050/fr/>

Nuclear structure at the proton drip line : Advances with nuclear decay studies

Blank B., M.J.G. Borge

Progress in Particle and Nuclear Physics 60 (2008) 403-483

08 17 A

<http://hal.in2p3.fr/in2p3-00202668/fr/>

A revisited view of the N=20 and N=28 magic numbers in the neutron-rich nuclei

Grévy S.

AIP Conference Proceedings 972 (2008)

Exotic Nuclei and Nuclear/Particle Astrophysics (II)

08 21 A

<http://hal.in2p3.fr/in2p3-00260117/fr/>

Studies with exotic nuclei : Two proton radioactivity

C. Borcea, B. Blank, G. Canchel, C. E. Demonchy, J. Giovinazzo, L. Hay, J. Huikari, S. Leblanc, I. Matea, J.-L. Pedroza, J. Pibernat, L. Serani, F. De Oliveira Santos, S. Grevy, L. Perrot, C. Stodel, J.-C. Thomas, C. Dossat

AIP Conference Proceedings 972 (2008) 156

Exotic Nuclei and Nuclear/Particle Astrophysics (II)

08 22 A

<http://hal.in2p3.fr/in2p3-00260213/fr/>

A new device for combined Coulomb excitation and isomeric conversion electron spectroscopy with fast fragmentation beams

E. Clément, A. Gørgen, W. Korten, A. Bürger, A. Chatillon, Y. Le Coz, Ch. Theisen, M. Zielinska, B. Blank, P.J. Davies, S.P. Fox, J. Gerl, G. Georgiev, S. Grévy, J. Iwanicki, D.G. Jenkins, F. Johnston-Theasby, P. Joshi, I. Matea, P.J. Napiorkowski, F. De Oliveira Santos, M.G. Pellegriti

NIM A 587 (2008) 292-299

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<http://hal.in2p3.fr/in2p3-00189007/fr/>

Discriminant analysis and secondary-beam charge recognition

J. Lukasik, P. Adrich, T. Aumann, C. O. Bacri, T. Barczyk, R. Bassini, S. Bianchin, C. Boiano, A. S. Botvina, A. Boudard, J. Brzychczyk, A. Chbihi, J. Cibor, B. Czech, J. -E. Ducret, H. Emling, J. Frankland, M. Hellstroem, D. Henzlova, G. Imme, I. Iori, H. Johansson, K. Kezzar, A. Lafriakh, A. Le Fevre, E. Le Gentil, Y. Leifels, J. Luehning, W. G. Lynch, U. Lynen, Z. Majka, M. Mocko, W. F. J. Mueller, A. Mykulyak, M. De Napoli, H. Orth, A. N. Otte, R. Palit, P. Pawlowski, A. Pullia, G. Raciti, E. Rapisarda, H. Sann, C. Schwarz, C. Sfienti, H. Simon, K. Summerer, W. Trautmann, M. B. Tsang, G. Verde, C. Volant, M. Wallace, H. Weick, J. Wiechula, A. Wieloch, B. Zwiaglinski

ALADIN Collaboration(s)

NIM A 587(2008) 413-419

08 24 A

<http://hal.in2p3.fr/in2p3-00163598/fr/>

Nuclear structure relevant to neutrinoless double β decay : ^{76}Ge and ^{76}Se

J.P. Schiffer, S.J. Freeman, J.A. Clark, C. Deibel, C.R. Fitzpatrick, S. Gros, A. Heinz, D. Hirata, C.L. Jiang, B.P. Kay, A. Parikh, P.D. Parker, K.E. Rehm, A.C.C. Villari, V. Werner, C. Wrede

Physical Review Letters 100 (2008) 112501

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<http://hal.in2p3.fr/in2p3-00264819/fr/>

Coulomb excitation of neutron-rich ^{44}Ar at SPIRAL

M. Zielińska, A. Gorgen A. Burgerc, W. Catfordd, E. Clément, C. Dossat, J. Iwanicki, W. Korten, J. Ljungvall, P.J. Napiorkowski, D. Pietak , G. Sletteng, J. Srebrny, Ch. Theisen, K. Wrzosek

Acta Physica Polonica B 39 (2008) 519

XXX Mazuraj Lakes Conference on Physics, Piaski (PL) september 2-9, 2007

08 28 A

<http://hal.in2p3.fr/in2p3-00406400/fr/>

Two-proton radioactivity

Blank. B, Ploszajczak M.

Rep. Prog. Phys. 71 (2008) 046301

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<http://hal.in2p3.fr/in2p3-00175614/fr/>

Internal conversion and summing effects in heavy-nuclei spectroscopy

Ch. Theisen Ch., A. Lopez-Martens, Ch. Bonnelle

NIM A 589 (2008) 230-242

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<http://hal.in2p3.fr/in2p3-00275392/fr/>

Re-separation modes of $^{197}\text{Au-} + ^{197}\text{Au-}$ system at sub-Fermi energies

J. Wilczynski, I. Skwira-Chalot, K. Siwek-Wilczynska, W. Gawlikowicz, J. Lukasik, F. Amorini¹, A. Anzalone, L. Auditore, V. Baran, J. Brzychczyk, G. Cardella, S. Cavallaro, M.B. Chatterjee, M. Colonna, E. De Filippo, M. Di Toro, A. Grzeszczuk, P. Guazzoni, S. Kowalski, E. La Guidara, G. Lanzano, G. Lanzalone¹, C. Maiolino, Z. Majka, N.G. Nicolis, A. Pagano, E.I. Piaseck, S. Pirrone, R. Planeta, G. Politi, F. Porto, F. Rizzo, P. Russotto, K. Schmidt, A. Sochocka, L. Swiderski, A. Trifiro, M. Trimarchi, J.P. Wieleczko, L. Zetta, W. Zipper

Int. Journal of Modern Physics E 17 (2008) 41-52

14th Workshop on Nuclear Physics Marie and Pierre Curie Large Scale Collective Motion, Kazimierz Dolny (POL), 26-30 septembre 2007

01 39 A

<http://hal.in2p3.fr/in2p3-00275841/fr/>

Indirect study of the $^{13}\text{C}(\alpha, n)^{16}\text{O}$ reaction via the $^{13}\text{C}(^7\text{Li}, t)^{17}\text{O}$ transfer reaction

M.G. Pellegriti, F. Hammache, P. Roussel, L. Audouin, D. Beaumel, P. Descouvemont, S. Fortier, L. Gaudefroy, J. Kiener, A. Lefebvre-Schuhl, M. Stanoiu, V. Tatischeff, M. Vilmy

Physical Review C 77 (2008) 042801 (R)

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<http://hal.in2p3.fr/in2p3-00276786/fr/>

In-beam γ -ray spectroscopy of the neutron-rich nitrogen isotopes $^{19-22}\text{N}$

D. Sohler, M. Stanoiu, Zs. Dombrádi, F. Azaiez, B. A. Brown, M. G. Saint-Laurent, O. Sorlin, Yu.-E. Penionzhkevich, N. L. Achouri, J.C. Angélique, M. Belleguic, C. Borcea, C. Bourgeois, J.M. Daugas, F. De Oliveira-Santos, Z. Dlouhy, C. Donzaud, J. Duprat, Z. Elekes, S. Grévy, D. Guillemaud-Mueller, F. Ibrahim, S. Leenhardt, M. Lewitowicz, M. J. Lopez-Jimenez, S.M. Lukyanov, W. Mittig, J. Mrázek, F. Negoita, Zs. Podolyák, M.G. Porquet, F. Pougheon, P. Roussel-Chomaz, H. Savajols, G. Sletten, Y. Sobolev, C. Stodel, J. Timár

Physical Review C 77 (2008) 044303

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<http://hal.in2p3.fr/in2p3-00276198/fr/>

Measurement of the Two-Halo Neutron Transfer Reaction $^1\text{H}(^{11}\text{Li}, ^9\text{Li})^3\text{H}$ at 3A MeV

I. Tanihata, M. Alcorta, D. Bandyopadhyay, R. Bieri, L. Buchmann, B. Davids, N. Galinski, D. Howell, W. Mills, R. Openshaw, E. Padilla-Rodal, G. Ruprecht, G. Sheffer, A. C. Shotter, S. Mythili, M. Trinczek, P. Walden, H. Savajols, T. Roger, M. Caamano, W. Mittig, P. Roussel-Chomaz, R. Kanungo, A. Gallant, M. Notani, G. Savard, I. J. Thompson

Physical Review Letters 100 (2008) 192502

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<http://hal.in2p3.fr/in2p3-00254888/fr/>

Probing the nuclear EOS with fragment production

M. Colonna, J. Rizzo, Ph. Chomaz, M. Di Toro

Nuclear Physics A 805 (2008) 454c-461c

INPC 2007

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<http://hal.in2p3.fr/in2p3-00165747/fr/>

The SPIRAL 2 project

Lewitowicz M.

Nuclear Physics A 805 (2008) 519c-525c

INPC 2007

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<http://hal.in2p3.fr/in2p3-00280945/fr/>

Studies of exotic systems using transfer reactions at GANIL

D. Beaumel, S. Fortier, E. Rich, E. Tryggestad, E. Becheva, Y. Blumenfeld, F. Delaunay, N. Francaria, S. Gales, L. Gaudefroy, J. Guillot, F. Hammache, E. Khan, V. Lima, J.A. Scarpaci, O. Sorlin, A. Fomichev, S.V. Stepantsov, G.M. Ter-Akopian, R. Wolski, A. Gilibert, N. Keeley, V. Lapoux, L. Nalpas, E.C. Pollacco, K.W. Kemper, P. Roussel-Chomaz, U. Datta Pramanik, D. Santonicito

Physics of Unstable Nuclei

Proceedings of the International Symposium on Physics of Unstable Nuclei (2008) p.18

International Symposium on Physics of Unstable Nuclei, Hoi An (Vietnam), 3 – 7 juillet 2007

08 50 A

<http://hal.in2p3.fr/in2p3-00292987/fr/>

Structure and low-lying states of the ^8He exotic nucleus via direct reactions on proton

V. Lapoux, N. Keeley, F. Skaza, N. Alamanos, F. Auger, A. Drouard, A. Gillibert, L. Nalpas, E.C. Pollacco, J.-L. Sida, D. Beaumel, E. Becheva, Y. Blumenfeld, F. Delaunay, J.-A. Scarpaci, L. Giot, P. Roussel-Chomaz, K.W. Kemper, R.S. Mackintosh, A. Pakou, R. Raabe, K. Rusek, S. Stepantsov, R. Wolski

Physics of Unstable Nuclei

Proceedings of the International Symposium on Physics of Unstable Nuclei (2008) p. 40

International Symposium on Physics of Unstable Nuclei, Hoi An (Vietnam), 3 – 7 juillet 2007

08 51 A

<http://hal.in2p3.fr/in2p3-00292991/fr/>

Isotopic temperatures and symmetry energy in spectator fragmentation

Physics of Unstable Nuclei

M. De Napoli, C. Sfienti, S. Bianchin, A. Le Fèvre, J. Lukasik, W. Trautmann, P. Adrich, T. Aumann, C.O. Bacri, T. Barczyk, R. Bassini, C. Boiano, A.S. Botvina, A. Boudard, J. Brzychczyk, A. Chbihi, J. Cibor, B. Czech, J.-E. Ducret, H. Emling, J. Frankland, M. Hellström, D. Henzlova, K. Kezzar, G. Immè, I. Iori, H. Johansson, A. Lafriakh, Le Gentil., Y. Leifels, W.G. Lynch, J. Lühning, U. Lynen, Z. Majka, M. Mocko, W.F.J. Müller, A. Mykulyak, H. Orth, A.N. Otte, R. Palit, P. Pawlowski, A. Pullia, G. Raciti, E. Rapisarda, H. Sann, C. Schwarz, H. Simon, K. Sümmerer, M.B. Tsang, C. Volant, M. Wallace, H. Weick, J. Wiechula, A. Wieloch, B. Zwiaglinski

Proceedings of the International Symposium on Physics of Unstable Nuclei (2008) p. 123

International Symposium on Physics of Unstable Nuclei, Hoi An (Vietnam), 3 – 7 juillet 2007

08 52 A

<http://hal.in2p3.fr/in2p3-00293592/fr/>

Fusion and direct reactions around the coulomb barrier for the system ${}^6\text{He} + {}^{64}\text{Zn}$
V. Scuderi, A. Di Pietro, P. Figuera, F. Amorini, C. Angulo, G. Cardella, E. Casarejos, M. Lattuada, A. Musumarra, M. Papa, M.G. Pellegriti, R. Raabe, F. Rizzo

Physics of Unstable Nuclei

Proceedings of the International Symposium on Physics of Unstable Nuclei (2008) p. 238

International Symposium on Physics of Unstable Nuclei, Hoi An (Vietnam), 3 – 7 juillet 2007

<http://hal.in2p3.fr/in2p3-00292996/fr/>

08 53 A

Study of the astrophysical reaction ${}^{13}\text{C}(\alpha, n){}^{16}\text{O}$ by the transfer reaction ${}^{13}\text{C}({}^7\text{Li}, t){}^{17}\text{O}$

F. Hammache, M.G. Pellegriti, P. Roussel, L. Audouin, D. Beaumel, S. Fortier, J. Kiener, A. Lefebvre-Schulh, V. Tatischeff, P. Descouvemont, L. Gaudefroy, M. Stanoiu

Physics of Unstable Nuclei

Proceedings of the International Symposium on Physics of Unstable Nuclei (2008) p. 297

International Symposium on Physics of Unstable Nuclei, Hoi An (Vietnam), 3 – 7 juillet 2007

08 54 A

<http://hal.in2p3.fr/in2p3-00293017/fr/>

SPIRAL2 at GANIL : a world leading ISOL facility for thge physics of exotic nuclei

Galès S.

Physics of Unstable Nuclei

Proceedings of the International Symposium on Physics of Unstable Nuclei (2008) p. 304

International Symposium on Physics of Unstable Nuclei, Hoi An (Vietnam), 3 – 7 juillet 2007

08 55 A

<http://hal.in2p3.fr/in2p3-00163273/fr/>

Search for long fission times of super-heavy elements with $Z=14$

M. Morjean, A. Chbihi, J.D. Frankland, A. Marchix, M. Parlog, C. Stodel, D. Jacquet, M. Laget, L. Tassan-Got, J.L. Charvet, R. Dayras, A. Drouard, L. Nalpas, C. Volant

Physics of Unstable Nuclei

Proceedings of the International Symposium on Physics of Unstable Nuclei (2008) p. 370

International Symposium on Physics of Unstable Nuclei, Hoi An (Vietnam), 3 – 7 juillet 2007

08 56 N

<http://hal.in2p3.fr/in2p3-00292302/fr/>

Evolution of the $N=28$ shell closure far from stability

Sorlin O.

Physics of Unstable Nuclei

Proceedings of the International Symposium on Physics of Unstable Nuclei (2008) p. 386

International Symposium on Physics of Unstable Nuclei, Hoi An (Vietnam), 3 – 7 juillet 2007

08 58 A

<http://hal.in2p3.fr/in2p3-00163281/fr/>

Long fission times of super-heavy compound nuclei

A. Drouart, J. L. Charvet, A. Chbihi, M. Chevallier, C. Cohen, D. Dauvergne, R. Dayras, J. D. Frankland, D. Jacquet, R. Kirsch, M. Laget, P. Loutesse, A. L'Hoir, A. Marchix, M. Morjean, L. Nalpas, M. Parlog, C. Ray, C. Schmitt, C. Stodel, L. Tassan-Got, C. Volant

AIP Conference Proceedings 1005 (2008) 215

Componds-nuclear reactions and related topics

Proceedings of the 2007 International Workshop on Componds-nuclear reactions and related topics (CNR 2007), Yosemite National Park, California (USA), 22-26 octobre 2007

08 59 A

<http://hal.in2p3.fr/in2p3-00289020/fr/>

Structure of Neutron-Rich Ar Isotopes Beyond N=28

S. Bhattacharyya, M. Rejmund, A. Navin, E. Caurier, F. Nowacki, A. Poves, R. Chapman, D. O'donnell, M. Gelin, A. Hodsdon, X. Liang, W. Mittig, G. Mukherjee, F. Rejmund, M. Rousseau, P. Roussel-Chomaz, K.-M. Spohr, Ch. Theisen

Physical Review Letters 101 (2008) 032501

08 74 A

<http://hal.in2p3.fr/in2p3-00291546/fr/>

Direct mass measurements of ^{68}Se and ^{80}Y

M.B. Gómez-Hornillos, M. Chartier, W. Mittig, A. Lépine-Szily, L. Caballero, C. E. Demonchy, G. Georgiev, N.A. Orr, G. Politi, M. Rousseau, P. Roussel-Chomaz, A.C.C. Villari

Physical Review C 78 (2008) 014311

08 76 A

<http://hal.in2p3.fr/in2p3-00303355/fr/>

1n- and 2n-transfer with the Borromean nucleus ^6He near the Coulomb barrier

A. Chatterjee, A. Navin, A. Shrivastava, S. Bhattacharyya, M. Rejmund, N. Keeley, V. Nanal, J. Nyberg, R.G. Pillay, K. Ramachandran, I. Stefan, D. Bazin, D. Beaumel, Y. Blumenfeld, G. De France, D. Gupta, M. Labiche, A. Lemasson, R. Lemmon, R. Raabe, J.A. Scarpaci, C. Simenel, C. Timis

SPIRAL Collaboration(s)

Physical Review Letters 101 (2008) 032701

08 77 A

<http://hal.in2p3.fr/in2p3-00291201/fr/>

Freeze-out properties of multifragmentation events

S. Piantelli, B. Borderie, E. Bonnet, N. Le Neindre, Ad. R. Raduta, M. F. Rivet, R. Bougault, A. Chbihi, R. Dayras, J. D. Frankland, E. Galichet, F. Gagnon-Moisan, D. Guinet, P. Lantesse, G. Lehaut, O. Lopez, D. Mercier, J. Moisan, M. Parlog, E. Rosato, R. Roy, B. Tamain, E. Vient, M. Vigilante, J.P. Wieleczko

INDRA Collaboration(s)

Nuclear Physics A 809 (2008) 111-128

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Fission Time Measurements: A New Probe into Superheavy Element Stability

M. Morjean, D. Jacquet, J.L. Charvet, A. L'hoir, M. Laget, M. Parlog, A. Chbihi, M. Chevallier, C. Cohen, D. Dauvergne, R. Dayras, A. Drouart, C. Escano-Rodriguez, J.D. Frankland, R. Kirsch, P. Lantesse, L. Nalpas, C. Ray, C. Schmitt, C. Stodel, L. Tassan-Got, E. Testa, C. Volant

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SPIRAL2 at GANIL: Status and Perspectives

Galès S.

AIP Conference Proceedings 1012 (2008) 94-105

Frontiers in Nuclear Structure, Astrophysics, and Reactions : FINUSTAR 2

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Multifragmentation threshold in $^{93}\text{Nb} + ^{\text{nat}}\text{Mg}$ collisions at 30 MeV/nucleon

L. Manduci, O. Lopez, J.C. Steckmeyer, B. Borderie, R. Bougault, R. Dayras, J.D. Frankland, D. Guinet, P. Laitesse, N. Le Neindre, M.F. Rivet, E. Rosato, R. Roy, E. Vient, M. Vigilante, B. Tamain, J.P. Wieleczko, S. Aiello, A. Anzalone, G. Cardella, S. Cavallaro, E. De Filippo, S. Femino, F. Giustolisi, P. Guazzoni, G. Lanzalone, G. Lanzano, S. Lo Nigro, A. Pagano, M. Papa, S. Pirrone, G. Politi, F. Porto, F. Rizzo, L. Sperduto, L. Zetta

INDRA et CHIMERA Collaborations

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Identification of new isotopes ^{125}Pd and ^{126}Pd produced by in-flight fission of $345\text{MeV/nucleon } ^{238}\text{U}$: First results from the RIKEN RI beam factory

T. Ohnishi, T. Kubo, K. Kusaka, A. Yoshida, K. Yoshida, N. Fukuda, M. Ohtake, Y. Yanagisawa, H. Takeda, D. Kameda, Y. Yamaguchi, N. Aoi, K. Yoneda, H. Otsu, S. Takeuchi, T. Sugimoto, Y. Kondo, H. Scheit, Y. Gono, H. Sakurai, T. Motobayashi, H. Suzuki, T. Nakao, H. Kimura, Y. Mizoi, M. Matsushita, K. Ieki, T. Kuboki, T. Yamaguchi, T. Suzuki, A. Ozawa, T. Moriguchi, Y. Yasuda, T. Nakamura, T. Nannichi, T. Shimamura, Y. Nakayama, H. Geissel, H. Weick, J.A. Nolen, O.B. Tarasov, A.S. Nettleton, D.P. Bazin, B.M. Sherrill, D.J. Morrissey, W. Mittig

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V. Chudoba, A.S. Fomichev, M.S. Golovkov, A.V. Gorshkov, V.A. Gorshkov, L.V. Grigorenko, S.A. Krupko, Yu.Ts. Oganessian, A.M. Rodin, S.I. Sidorchuk, R.S. Slepnev, S.V. Stepantsov, G.M. Ter-Akopian, R. Wolski, A.A. Korshennikov, E.Yu. Nikolskii, V.A. Kuzmin, B.G. Novatskii, D.N. Stepanov, P. Roussel-Chomaz, W. Mittig, V. Bouchat, V. Kinnard, T. Materna, F. Hanappe, O. Dorvaux, L. Stuttge

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L. Gaudefroy, O. Sorlin, F. Nowacki, D. Beaumel, Y. Blumenfeld, Z. Dombardi, S. Fortier, S. Franchoo, S. Grevy, F. Hammache, K. W. Kemper, K. L. Kratz, M. G. St. Laurent, S. M. Lukyanov, L. Nalpas, A. N. Ostrowski, Yu. E. Penionzhkevich, E. C. Pollacco, P. Roussel, P. Roussel Chomaz, D. Sohler, M. Stanoiu, E. Tryggestad

Physical Review C 78 (2008) 034307

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M. Stanoiu, D. Sohler, O. Sorlin, F. Azaiez, Zs. Dombardi, B.A. Brown, M. Belleguic, C. Borcea, C. Bourgeois, Z. Dlouhy, Z. Elekes, Zs. Fülöp, S. Grévy, D. Guillemaud-Mueller, F. Ibrahim, A. Kerek, A. Krasznahorkay, M. Lewitowicz, S.M. Lukyanov, S. Mandal, J. Mrazek, F. Negoita, Yu.-E. Penionzhkevich, Zs. Podolyak, P. Roussel-Chomaz, M.G. Saint-Laurent, H. Savajols, G. Sletten, J. Timar, C. Timis, A. Yamamoto

Physical Review C 78 (2008) 034315

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J. Robin, A. Odahara, G. Duchêne, F. A. Beck, P. Twin, Th. Byrski, D. Curien, N. Adimi, D. E. Appelbe, P. Bednarczyk, A. Bracco, B. Cederwall, S. Courtin, D. M. Cullen, O. Dorvaux, S. Ertück, G. De France, B. Gall, P. Joshi, S. L. King, A. Korichi, K. Lagergren, G. Lo Bianco, S. Leoni, A. Lopez-Martens, S. Lunardi, B. Million, A. Nourredine, E. Pachoud, E. S. Paul, C. Petrache, I. Piqueras, N. Redon, A. Saltarelli, J. Simpson, O. Stezowski, R. Venturelli, J. P. Vivien, K. Zuber

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Studies of uranium carbide targets of a high density

V.N. Panteleev, O. Alyakrinskiy, M. Barbui, A.E. Barzakh, M. Dubois, C. Eléon, S. Essabaa, D.V. Fedorov, G. Gaubert, A.M. Ionan, V.S. Ivanov, P. Jardin, C. Lau, R. Leroy, G. Lhersonneau, K.A. Mezilev, C. Mhamed, P.L. Molkanov, F.V. Moroz, S.Yu. Orlov, M.G. Saint Laurent, L. Stroe, L.B. Tecchio, M. Tonezzer, A.C.C. Villari, Yu.M. Volkov

NIM B 266 (2008) 4247-4251

XVth International Conference on Electromagnetic Isotope Separators and Techniques Related to their Applications (EMIS2007): June 24–29, 2007 Deauville, France

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Electron beam–plasma ionizing target for the production of neutron-rich nuclides

V.N. Panteleev, A.E. Barzakh, S. Essabaa, D.V. Fedorov, A.M. Ionan, V.S. Ivanov, C. Lau, R. Leroy, G. Lhersonneau, K.A. Mezilev, P.L. Molkanov, F.V. Moroz, S.Yu. Orlov, L. Stroe, L.B. Tecchio, A.C.C. Villari, Yu.M. Volkov

NIM B 266 (2008) 4294-4297

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<http://hal.in2p3.fr/in2p3-00164760/fr/>

Fusion–fission is a new reaction mechanism to produce exotic radioactive beams

O.B. Tarasov, A.C.C. Villari

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NIM B 266 (2008) 4670-4673

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<http://hal.in2p3.fr/in2p3-00294744/fr/>

Experimental study of resonance states in ${}^7\text{H}$ and ${}^6\text{H}$

M. Caamano, D. Cortina-Gil, W. Mittig, H. Savajols, M. Chartier, C. E. Demonchy, B. Fernandez, M. B. Gomez Hornillos, A. Gillibert, B. Jurado, O. Kiselev, R. Lemmon, A. Obertelli, F. Rejmund, M. Rejmund, P. Roussel-Chomaz, R. Wolski

Physical Review C 78 (2008) 044001

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Experimental investigation of the residues produced in the ${}^{136}\text{Xe} + \text{Pb}$ and ${}^{124}\text{Xe} + \text{Pb}$ fragmentation reactions at 1 A GeV

D. Henzlova, K.-H. Schmidt, M. V. Ricciardi, A. Kelic, V. Henzl, P. Napolitani, L. Audouin, J. Benlliure, A. Boudard, E. Casarejos, J. E. Ducret, T. Enqvist, A. Heinz, A. Junghans, B. Jurado, A. Krasa, T. Kurtukian, S. Leray, M. F. Ordonez, J. Pereira, R. Pleska, F. Rejmund, C. Schmitt, C. Stéphan, L. Tassan-Got, C. Villagrasa, C. Volant, A. Wagner, O. Yordanov

Physical Review C 78 (2008) 044616

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<http://hal.in2p3.fr/in2p3-00336278/fr/>

Paul trapping of radioactive ${}^6\text{He}^+$ ions and direct observation of their beta-decay

X. Flechard, E. Lienard, A. Mery, D. Rodriguez, G. Ban, D. Durand, F. Duval, M. Herbane, M. Labalme, F. Mauger, O. Naviliat-Cuncic, J. C. Thomas, Ph. Velten

SPIRAL Collaboration(s)

Physical Review Letters 101 (2008) 212504

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<http://hal.in2p3.fr/in2p3-00331783/fr/>

Study of multi-nucleon transfer reactions with light nuclei

G. Benzoni, D. Montanari, A. Bracco, N. Blasi, F. Camera, F.C.L. Crespi, A. Corsi, S. Leoni, B. Million, R. Nicolini, O. Wieland, A. Zalite, F. Zocca, F. Azaiez, S. Franchoo, I. Stefan, F. Ibrahim, D. Verney, S. Battacharya 2, G. De France, A. Navin, M. Rejmund, L. Corradi, G. De Angelis, A. Gadea, A. M. Stefanini, J. J. Valiente-Dobón, E. Farnea, S. Lunardi, P. Mason, G. Montagnoli, F. Scarlassara, S. Szilner, G. Pollarolo

AIP Conference Proceedings 1012 (2008) 300-304

Frontiers in Nuclear Structure, Astrophysics, and Reactions : FINUSTAR 2

08 140 A

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The SPIRAL 2 Project

M. Lewitowicz

AIP Conference Proceedings 1072 (2008) 148-153

Nuclear Physics and Astrophysics: From Stable Beams to Exotic Nuclei, Cappadocia : Turquie (2008)

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γ -ray Spectroscopy of Proton Drip-Line Nuclei in the A~130 Region using SPIRAL beams

O. Stézowski, D. Guinet, Ph. Loutesse, M. Meyer, N. Redon, B. Rossé, Ch. Schmitt, P.J. Nolan, A. J. Boston, R. Cooper, M. Dimmock, S. Gros, B. Mcguirck, E. S. Paul, M. Petri, H. Scraggs, G. Turk, G. De France, S. Bhattachasyya, G. Mukherjee, F. Rejmund, M. Rejmund, H. Savajols, J. N. Scheurer, B. M. Nyakó, J. Gál, J. Molnár, J. Timár, L. Zolnai, A. Astier, I. Deloncle,

M.G. Porquet, A. Prévost, K. Juhasz, R. Wadsworth, P. Joshi, G. La Rana, R. Moro, M. Trotta, E. Vardaci, G. Hackman, G. Ball

AIP Conference Proceedings 1072 (2008) 166-171

Nuclear Physics and Astrophysics: From Stable Beams to Exotic Nuclei, Cappadocia : Turquie (2008)

08 151 A

<http://hal.in2p3.fr/in2p3-00358543/fr/>

Fast Ternary and Quaternary Breakup of the $^{197}\text{Au} + ^{197}\text{Au}$ System in Collisions at 15 MeV=nucleon

I. Skwira-Chalot, K. Siwek-Wilczynska, J. Wilczynski, F. Amorini, A. Anzalone, L. Auditore, V. Baran, J. Brzychczyk, G. Cardella, S. Cavallaro, M. B. Chatterjee, M. Colonna, E. De Filippo, M. Di Toro, W. Gawlikowicz, E. Geraci, A. Grzeszczuk, P. Guazzoni, S. Kowalski, E. La Guidara, G. Lanzalone, G. Lanzano J. Łukasik, C. Maiolino, Z. Majka, N. G. Nicolis, A. Pagano, E. Piasecki, S. Pirrone, R. Płaneta, G. Politi, F. Porto, F. Rizzo, P. Russotto, K. Schmidt, A. Sochocka, Ł. Swiderski, A. Trifiro M. Trimarchi, J. P. Wieleczko, L. Zetta, W. Zipper

Physical Review Letters 101 (2008) 262701

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Search for a long living giant system in $^{238}\text{U}+^{238}\text{U}$ collisions near the coulomb barrier

C. Golabek , A. C. C. Villari , S. Heinzy, W. Mittig , S. Bhattacharyyaz, D. Boilley , G. De France , A. Drouart, L. Gaudefroy , L. Giot, A. Marchix , V. Maslovk, M. Morjean , G. Mukherjeez, A. Navin , Yu. Penionzkevichk, F. Rejmund , M. Rejmund , P. Roussel-Chomaz, C. Stodel

Int. Journal of Modern Physics E 17 (2008) 2235-2239

Workshop on the State of the Art in Nuclear Cluster Physics (SOTANCP2008), Strasbourg : France (2008)

08 148 A

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Influence of neutron enrichment on disintegration modes of compound nuclei

E. Bonnet , J. P. Wieleczko , J. Gomez Del Campo, M. La Commara, S. Barlini, C. Beck, B. Borderie, R. Bougault , A. Chbihi , R. Dayras , G. De Angelis, J. D. Frankland , A. Galindo-Uribarri, T. Glodariou, V. Kravchuk, Ph. Loutesse, J. Moisan , N. Le Neindre, B. Martin, L. Nalpas , A. D. Onofrio, M. Parlog, D. Pierroutsakou, F. Rejmund , M. F. Rivet, M. Romoli, E. Rosato, R. Roy, D. Shapira, G. Spadaccini, B. Tamain And M. Vigilante

Int. Journal of Modern Physics E 17 (2008) 2359-2362

Workshop on the State of the Art in Nuclear Cluster Physics (SOTANCP2008), Strasbourg : France (2008)

08 149 A

<http://hal.in2p3.fr/in2p3-00311312/fr/>

Magnetic moment of ^{43}mS

J. M. Daugas, L. Gaudefroy, M. Hass, J. C. Angélique, D. L. Balabanski, E. Fiori, C. Force, G. Georgiev, S. Grévy, D. Kameda, V. Kumar, R. Lozeva, I. Matea, V. Méot, P. Morel, B.S. Nara Singh, L. Perrot, B. Rossé, G. S. Simpson, Ch. Stodel, J. C. Thomas

AIP Conference Proceedings 1072 (2008) 293-297

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08 153 A

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Two-proton radioactivity: Tracking ^2He emission

J. Giovinazzo

International Journal of Modern Physics E Vol. 17, No. 10 (2008) 2264–2269

Workshop on the State of the Art in Nuclear Cluster Physics (SOTANCP2008), Strasbourg : France (2008)

08 159 A

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Nuclear Structure far from stability at the N = 50 Shell Closure

E. Sahin, G. De Angelis, A. Gadea, G. Duchene, T. Faul¹, D. R. Napoli, E. Farne, J. J. Valiente-Dobón, R. Orlandi, D. Mengoni, F. Della Vedova, R. P. Singh, C. Ur, F. Recchi, M. N. Erduran, M. Bostan, S. Erturk, S. Aydin, K. T. Wiedemann, A. M. Stefanini, S. Lenzi, S. Lunardi, N. Marginean, L. Corradi, E. Fioretto, G. Montagnoli, F. Scarlassara, P. Mason, S. Szilner, D. Ackermann, G. Pollarolo, J. R. B. Oliveira, T. Byrski, D. Curien¹, B. Gall, F. Haas¹, O. Dorwaux, J. Robin¹, M. Nespolo, F. Azaiez, G. De France, A. Algora, X. Liang, F. Nowacki, Y. H. Zhang, X. H. Zhou

AIP Conference Proceedings 1012 (2008) 139-143

Frontiers in Nuclear Structure, Astrophysics, and Reactions : FINUSTAR 2

08 160 A

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Unbound states studied by direct reactions

R Wolski, M S Golovkov, L V Grigorenko, A S Fomichev, S A Krupko, S I Sidorchuk, S V Stepantsov, R S Slepnev, G M Ter-Akopian, Ł Standyło, Y M Tchuvil'sky, DY Pang

Journal of Physics: Conference Series 111 (2008) 012031

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08 162 A

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PHYSIQUE THEORIQUE

Nuclear masses and the number of valence nucleons

J. Mendoza-Temis, A. Frank, J.G. Hirsch, J.C. López Vieyra, I. Morales, J. Barea, P. Van Isacker, V. Velázquez

Nuclear Physics A, 799 (2008) 84-93

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New method for extracting quasi-bound states from the continuum

J.B. Faes, M. Ploszajczak

Nuclear Physics A 800 (2008) 21-36

08 06 T

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Partial conservation of seniority and nuclear isomerism

P. Van Isacker, S. Heinze

Physical Review Letters 100 (2008) 052501

08 10 T

<http://hal.in2p3.fr/in2p3-00202956/fr/>

Non-Markovian diffusion over a parabolic potential barrier: influence of the friction-memory function

B. Yilmaz, S. Ayik, Y. Abe, D. Boilley

Physical Review E 77 (2008) 011121

08 11 T

<http://hal.in2p3.fr/in2p3-00202731/fr/>

Erratum to: “ Criticality in the configuration-mixed interacting boson model : (1) $U(5) \rightarrow Q(\chi) \cdot Q(\chi)$ mixing “ [Nucl. Phys. A 789 (2007) 164]

V. Hellemans, P. Van Isacker, S. De Baerdemacker, K. Heyde

Nuclear Physics A (2008) 801 80-81

08 16 T

<http://hal.in2p3.fr/in2p3-00256089/fr/>

Continuum coupling effects in spectra of mirror nuclei and binding systematics

J. Okolowicz, M. Ploszajczak, Yan-an Luo

Acta Physica Polonica B 39 (2008) 389

XXX Mazuraj Lakes Conférence on Physics, Piaski (PL) September 2-9, 2007

08 26 T

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Global and local nuclear mass formulas

Van Isacker P.

Acta Physica Polonica B 39 (2008) 421

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08 27 T

<http://hal.in2p3.fr/in2p3-00195412/fr/>

Garvey-Kelson relations and the new nuclear mass tables

Barea J., Frank A., G. Hirsch J., Van Isacker P., Pittel S., Velázquez V.

Physical Review C 77 (2008) 041304(R)

08 40 T

<http://hal.in2p3.fr/in2p3-00256302/fr/>

Exact stochastic simulation of dissipation and non-Markovian effects in open quantum systems

D. Lacroix

Physical Review E 77 (2008) 041126

08 43 T

<http://hal.in2p3.fr/in2p3-00256291/fr/>

A new approach to solve the Boltzmann-Langevin equation for fermionic systems

J. Rizzo, Ph. Chomaz, M. Colonna

Nuclear Physics A 806 (2008) 40-64

08 59 T

<http://hal.in2p3.fr/in2p3-00262058/fr/>

Pseudospin, supersymmetry and the shellstructure of atomic nuclei

S. Typel

Nuclear Physics A 806 (2008) 156-178

08 60 T

<http://hal.in2p3.fr/in2p3-00273375/fr/>

Triaxiality in the interacting boson model

B. Sogunlu, P. Van Isacker

Nuclear Physics A 808 (2008) 27-46

08 61 T

<http://hal.in2p3.fr/in2p3-00280394/fr/>

Correlating radii and electric monopole transitions of atomic nuclei

S. Zerguine, P. Van Isacker, A. Bouldjedri, S. Heinze

Physical Review Letters 101 (2008) 022502

08 73 T

<http://hal.in2p3.fr/in2p3-00289707/fr/>

Cluster formation in asymmetric nuclear matter: semi-classical and quantal approaches

C. Ducoin, J. Margueron, Ph. Chomaz

Nuclear Physics A 809 (2008) 30-64

08 75 T

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Analog E1 transitions and isospin mixing

N.S. Pattabiraman, D.G. Jenkins, M.A. Bentley, R. Wadsworth, C.J. Lister,
M.P. Carpenter, R.V.F. Janssens, T.L. Khoo, T. Lauritsen, D. Seweryniak, S. Zhu,
G. Lotay, P.J. Woods, S. Krishichayan, P. Van Isacker

Physical Review C 78 (2008) 024301

08 81 T

<http://hal.in2p3.fr/in2p3-00311168/fr/>

The interacting boson model for exotic nuclei

Van Isacker P.

Proc. of the Int. School of Physics "Enrico Fermi" Course CLXIX (2008) 347-383

01 81 T

<http://hal.in2p3.fr/in2p3-00196581/fr/>

Shape coexistence and phase transitions in the platinum isotopes

I.O. Morales, A. Frank, C.E. Vargas, P. Van Isacker

Physical Review C 78 (2008) 024303

08 82 T

<http://hal.in2p3.fr/in2p3-00311179/fr/>

Shape coexistence in the neutron-deficient Pt isotopes in the configuration-mixed IBM

Vargas C.E., Morales I.O., Frank A., Van Isacker P., Campuzano C.

AIP Conference Proceedings 1012 (2008) 431-433

Frontiers in Nuclear Structure, Astrophysics, and Reactions : FINUSTAR 2

08 89 T

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Testing the predictive power of nuclear mass models

J. Mendoza-Temis, I. Morales, J. Barea, A. Frank, J.G. Hirsch, J.C. López Vieyra,

P. Van Isacker, V. Velázquez

Nuclear Physics A 809 (2008) 30-64

08 109 T

<http://hal.in2p3.fr/in2p3-00326804>

Energy dependence of nucleus-nucleus potential close to the Coulomb barrier

K. Washiyama, D. Lacroix

Physical Review C 78 (2008) 024610

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INSTRUMENTATION & ACCELERATEUR

Survey and alignment concept for installation of the SPIRAL2 accelerator devices at GANIL

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A. Kabir, A. Meftah, J.P. Stoquert, M. Toulemonde, I. Monnet

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