

Grand Accélérateur National d'Ions Lourds

GANIL

Laboratoire commun CEA / DSM - CNRS / IN²P³

**GROUPE PHYSIQUE
DOCUMENTATION**



Edition du 05 mai 2009

Date de début de la période : 1 janvier 2008

Date de fin de la période : 31 décembre 2008

Production Scientifique du GANIL : 229

Publications relatives au GANIL dans des revues à comité de lecture : 75
Actes de Conférences : 84

Prétirages GANIL : 40
Rapports GANIL : 1
Thèses GANIL : 3

Prétirages relatifs au GANIL : 20
Thèses relatives au GANIL : 7

NUCLEAR PHYSICS

PUBLICATIONS

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., Béliier 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., Thoma J.C., Vermeulen N., Yordanov D.T., Utsuno Y., Otsuka T.

Physics Letters B, 658 (2008) 203-208

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

08 01 A

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

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

08 02 A

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

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

08 03 A

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

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

08 04 A

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

<http://hal.in2p3.fr/in2p3-00207520/fr/>

08 05 T

New method for extracting quasi-bound states from the continuum

J.B. Faes, M. Ploszajczak

Nuclear Physics A 800 (2008)21-36

<http://hal.in2p3.fr/in2p3-00173761/fr/>

08 06 T

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

Pellegriti M.G. et al.

Physics Letters B, 659 (2008) 864-869

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

08 07 A

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

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

08 08 A

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. Francaria, U. Garg, M. Gelin, A. Gillibert, D. Gupta, N. Keeley, F. Maréchal, A. Obertelli, J.-A. Scarpaci

Physical Review Letters 100 (2008) 042501

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

08 09 A

Partial conservation of seniority and nuclear isomerism

P. Van Isacker, S. Heinze

Physical Review Letters 100 (2008) 052501

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08 10 T

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

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

08 11 T

Erratum to: “ Criticality in the configuration-mixed interacting boson model : (1) $U(5) \rightarrow O(3) \times U(1) \times U(1)$ mixing “ [Nucl. Phys. A 789 (2007) 164]

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

Nuclear Physics A (2008) 801 80-81

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

08 16 T

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

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

08 17 A

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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08 23 A

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. Zwieglinski

ALADIN Collaboration(s)

NIM A 587(2008) 413-419

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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

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

08 25 A

Two-proton radioactivity

Blank. B, Ploszajczak M.

Rep. Prog. Phys. 71 (2008) 046301

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

08 36 A

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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08 37 A

Garvey-Kelson relations and the new nuclear mass tables

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

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08 40 T

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)

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

08 41 A

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

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

08 42 A

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

D. Lacroix

Physical Review E 77 (2008) 041126

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

08 43 T

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-

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Physical Review Letters 100 (2008) 192502

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

08 44 A

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

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

08 59 T

Pseudospin, supersymmetry and the shellstructure of atomic nuclei

S. Typel

Nuclear Physics A 806 (2008) 156-178

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

08 60 T

Triaxiality in the interacting boson model

B. Sorgunlu, P. Van Isacker

Nuclear Physics A 808 (2008) 27-46

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

08 61 T

Correlating radii and electric monopole transitions of atomic nuclei

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

Physical Review Letters 101 (2008) 022502

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

08 73 T

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

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08 74 A

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

C. Ducoin, J. Margueron, Ph. Chomaz

Nuclear Physics A 809 (2008) 30-64

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08 75 T

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

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08 76 A

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

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

08 77 A

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

<http://hal.in2p3.fr/in2p3-00291789/fr/>

08 79 A

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

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

08 81 T

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

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

08 82 T

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

Physical Review Letters 101 (2008) 072701

<http://hal.in2p3.fr/in2p3-00289928/fr/>

08 84 A

Nuclear magic numbers: New features far from stability

Sorlin O., Porquet M.-G.

Progress in Particle and Nuclear Physics 61 (2008) 602-673

<http://hal.in2p3.fr/in2p3-00280392/fr/>

08 85 A

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. Lantesse, 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

Nuclear Physics A 811 (2008) 93-106

<http://hal.archives-ouvertes.fr/hal-00277843/fr/>

08 90 A

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

Journal of the Physical Society of Japan 77 (2008) 083201

<http://hal.in2p3.fr/in2p3-00294261/fr/>

08 91 A

Multi-particle correlation function to study short-lived nuclei

F. Grenier, A. Chbihi, R. Roy, G. Verde, D. Thériault, J.D. Frankland, J.P. Wieleczko, B. Borderie, R. Bougault, R. Dayras, E. Galichet, D. Guinet, P. Lantesse, N. Le Neindre, O. Lopez, J. Moisan, L. Nalpas, P. Napolitani, M. Pârlogi M.F. Rivet, E. Rosato, B. Tamain, E. Vient, M. Vigilante

Nuclear Physics A 811 (2008) 233–243

<http://hal.in2p3.fr/in2p3-00310864/fr/>

08 93 A

Quest for the ^{10}He Nucleus

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. Stepanov, 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

Euro. Phys J. Special Topics 162 (2008) 161-164

<http://hal.in2p3.fr/in2p3-00323073/fr/>

08 104 A

Beta-decay branching ratios of ^{62}Ga

A. Bey, B. Blank, G. Canchel, C. Dossat, J. Giovinazzo, I. Matea, V. Elomaa, T. Eronen, U. Hager, M. Hakala, A. Jokinen, A. Kankainen, I. Moore, H. Penttilä, S. Rinta-Antila, A. Saastamoinen, T. Sonoda, J. Aysto, N. Adimi, G. De France, J.C. Thomas, G. Voltolini, T. Chaventré

The European Physical Journal A 36 (2008) 121-126

<http://hal.archives-ouvertes.fr/hal-00273805/fr/>

08 105 A

Structure of the $N=27$ isotones derived from the $^{44}\text{Ar}(d,p)^{45}\text{Ar}$ reaction

L. Gaudefroy, O. Sorlin, F. Nowacki, D. Beaumel, Y. Blumenfeld, Z. Dombradi, 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

<http://hal.in2p3.fr/in2p3-00311397/fr/>

08 106 A

Disappearance of the $N=14$ shell gap in the C isotopic chain

M. Stanoiu, D. Sohler, O. Sorlin, F. Azaiez, Zs. Dombradi, 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

<http://hal.in2p3.fr/in2p3-00312793/fr/>

08 107 A

Discrete decay of the yrast superdeformed band in the ^{151}Tb nucleus

M. Stanoiu, D. Sohler, O. Sorlin, F. Azaiez, Zs. Dombradi, 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) 034319

<http://hal.in2p3.fr/in2p3-00325684/fr/>

08 108 A

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

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08 109 T

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

K. Washiyama, D. Lacroix

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Pairing Vibrations Study with the Time-Dependent Hartree-Fock-Bogoliubov theory

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SPIRAL Collaboration(s)

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

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Description of Exotic Nuclei with the Interacting Boson Model

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Magnetic moment of ^{43m}S

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Two-proton radioactivity: Tracking ^2He emission

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Performance of VAMOS for reactions near the Coulomb barrier

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High precision (14 bit), high density (octal) analog to digital converter for spectroscopy applications

E.T. Subramaniam, M. Jain, R.K. Bhowmik, M. Tripon

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CONFERENCE PROCEEDINGS

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

R. Beunard

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R. Beunard

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Design of the Prototypical Cryomodule for the EUROTRANS Superconducting Linac for Nuclear Waste Transmutation

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Measurement of the Ar diffusion coefficient in graphite at high temperature by the ISOL method

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About the production rates and the activation of the uranium carbide target for SPIRAL 2

M. Fadil, B. Rannou and the SPIRAL2 project team

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On-line ECR ion sources: Present and future

N. Lecesne

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F. Labrecque, N. Lecesne, P. Bricault

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A cheap and compact mass spectrometer for radioactive ions based on a Wien filter

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Coupling gamma-ray arrays to spectrometers: The way to better exploit radioactive ion beams

G. de France

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Safety and radioprotection issues with post-accelerated high intensity ribs

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Preliminary implementation for the new SPIRAL2 project control system

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Swift heavy ion irradiation of SrTiO₃ under grazing incidence

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Grafting of PNIPAAm on PVDF submicroscopic tracks induced by the active sites remainders of the etching process

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The space experiment CERASP: Definition of a space-suited radiation source and growth conditions for human cells

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Interférences de type Young avec une source à un seul électron

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Irradiation of Atarctic polystyrene: linear energy transfer effects

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SEGR Study on Power MOSFETs: Multiple Impacts Assumption

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Single swift heavy ion-induced trail of discontinuous nanostructures on SiO₂ surface under grazing incidence

A.M.J.F. Carvalho, A.D. Touboul, M. Marinoni, C. Guasch, M. Ramond, H. Lebius, F. Saigné, J. Bonnet

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Conductive nanodots on the surface of irradiated CaF₂

T. Roll, M. Meier, S. Akçöltekin, M. Klusmann, H. Lebius, M. Schleberger

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08 156 N

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Irradiation effects induced in silicon carbide by low and high energy ions

Benyagoub A.

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Structural evolution of SiC nanostructured and conventional ceramics under irradiation

A. Audren, I. Monnet, Y. Leconte, X. Portier, L. Thomé, M. Levalois, N. Herlin-Boime, C. Reynaud

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A. Audren , A. Benyagoub, L. Thome, F. Garrido

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Swift heavy ions effects in III-V nitrides

S. Mansouri, P. Marie, C. Dufour, G. Nouet, I. Monnet, H. Lebius

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Why ion irradiation does not lead to the same structural changes in normal spinels $ZnAl_2O_4$, $MgAl_2O_4$ and $MgCr_2O_4$?

G. Baldinozzi,, D. Simeone, D. Gosset , S. Surblé, L. Mazerolles , L. Thomé

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

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Effect of the energy deposition modes on the structural stability of pure zirconia

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Analyse et caractérisation des résidus lourds produits dans les réactions $^{129}\text{Xe} + \text{natSn}$ entre 8 et 25 A MeV

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Université de Caen Basse Normandie – Université Laval (Canada)

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