

Grand Accélérateur National d'Ions Lourds

GANIL

Laboratoire commun CEA / DSM - CNRS / IN²P³

GRUPE PHYSIQUE
DOCUMENTATION



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Production Scientifique du GANIL : 90

Publications relatives au GANIL dans des revues à comité de lecture : 38

Actes de Conférences : 38

Prétirages GANIL : 12

Rapports GANIL : 1

Thèses GANIL :

Prétirages relatifs au GANIL : 2

Thèses relatives au GANIL :

PUBLICATIONS DANS DES REVUES À COMITE DE LECTURE

PHYSIQUE NUCLEAIRE

Absolute cross-sections from X – γ coincidence measurements

A. Lemasson, A. Shrivastava, A. Navin, M. Rejmund, V. Nanal, S. Bhattacharyya, A. Chatterjee, S. Kailas, K. Mahata, V.V. Parkar, R.G. Pillay, K. Ramachandran, P.C. Rout

NIM A 598 (2009) 445-449

<http://hal.in2p3.fr/in2p3-00348478>

09 02 A

Fragment properties of fragmenting heavy nuclei produced in central and semi-peripheral collisions.

E. Bonnet, B. Borderie, N. Le Neindre, M.-F. Rivet, R. Bougault, A. Chbihi, R. Dayras, J.D. Frankland, E. Galichet, F. Gagnon-Moisan, D. Guinet, P. Lantesse, J. Lukasik, D. Mercier, M. Pârlog, E. Rosato, R. Roy, C. Sfienti, M. Vigilante, J.P. Wieleczko, B. Zwieglinski, INDRA - ALADIN Collaborations

Nuclear Physics A 816 (2009) 1-18

<http://hal.archives-ouvertes.fr/hal-00335974/fr/>

09 03 A

Single-proton removal reaction study of ^{16}B

J.-L. Lecouey, N.A. Orr, F.M. Marqués, N.L. Achouri, J.-C. Angélique, B.A. Brown, F. Carstoiu, W.N. Catford, N.M. Clarke, M. Freer, B.R. Fulton, S. Grévy, F. Hanappe, K.L. Jones, M. Labiche, R.C. Lemmon, A. Ninane, E. Sauvan, K.M. Spohr, L. Stuttgé

Physics Letters B 672 (2009) 6-11

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The ^8He and ^{10}He spectra studied in the (t,p) reaction

M.S. Golovkov, L.V. Grigorenko, G.M. Ter-Akopian, A.S. Fomichev, Yu.Ts. Oganessian, V.A. Gorshkov, S.A. Krupko, A.M. Rodin, S.I. Sidorchuk, R.S. Slepnev, S.V. Stepantsov, R. Wolski, D.Y. Pang, V. Chudoba, A.A. Korshennikov, E.A. Kuzmin, E.Yu. Nikolskii, B.G. Novatskii, D.N. Stepanov, P. Roussel-Chomaz, W. Mittig, A. Ninane, F. Hanappe, L. Stuttgé, A.A. Yukhimchuk, V.V. Perevozchikov, Yu.I. Vinogradov, S.K. Grishechkin, S.V. Zlatoustovskiy

Physics Letters B 672 (2009) 22-29

<http://hal.in2p3.fr/in2p3-00355548/fr/>

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Spectroscopy of $^{52,53}\text{Sc}$

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 C 79, 014313 (2009)

<http://hal.in2p3.fr/in2p3-00357825/fr/>

09 12 A

Low-energy Coulomb excitation of neutron-rich zinc isotopes

J. Van de Walle, F. Aksouh, T. Behrens, V. Bildstein, A. Blazhev, J. Cederkall, E. Clément, T. E. Cocolios, T. Davinson, P. Delahaye, J. Eberth, A. Ekström, D. V. Fedorov, V. N. Fedosseev, L. M. Fraile, S. Franchoo, R. Gernhauser, G. Georgiev, D. Habs, K. Heyde, G. Huber, M. Huyse, F. Ibrahim, O. Ivanov, J. Iwanicki, J. Jolie, O. Kester, U. Köster, T. Kröll, R. Krücken, M. Lauer, A. F. Lisetskiy, R. Lutter, B. A. Marsh, P. Mayet, O. Niedermaier, M. Pantea, R. Raabe, P. Reiter, M. Sawicka, H. Scheit, G. Schrieder, D. Schwalm, M. D. Seliverstov, T. Sieber, G. Sletten, N. Smirnova, M. Stanoiu, I. Stefanescu, J.-C. Thomas, J. J. Valiente-Dobon, P. Van Duppen, D. Verney, D. Voulot, N. Warr, D. Weisshaar, F. Wenander, B. H. Wolf, M. Zielinska

REX-ISOLDE Collaboration

Physical Review C 79, 014309 (2009)

<http://hal.in2p3.fr/in2p3-00358075>

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New digital techniques applied to A and Z identification using pulse shape discrimination of silicon detector current signals

S. Barlini, R. Bougault, Ph. Laborie, O. Lopez, D. Mercier, M. Parlog, B. Tamain, E. Vient, E. Chevallier, A. Chbihi, B. Jacquot, V. L. Kravchuk

Nuclear Instruments and Methods in Physics Research A 600 (2009) 644–650

<http://hal.in2p3.fr/in2p3-00363510/fr/>

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Shell Erosion and Shape Coexistence in $^{43}_{16}\text{S}_{27}$

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

Physical Review Letters 102, 092501 (2009)

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09 20 A

Mass of ^{11}Li from the $^1\text{H}(^{11}\text{Li}, ^9\text{Li})^3\text{H}$ reaction

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

Physical Review C 79, 034318 (2009)

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Isotopic Dependence of the Nuclear Caloric Curve

C. Sfienti, 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, M. De Napoli, J.-E. Ducret³, H. Emling, J.D. Frankland, M. Hellstrom, D. Henzlova, G. Imme, I. Iori, H. Johansson, K. Kezzar, A. Lafriakh, A. Le Fevre, E. Le Gentil³, Y. Leifels, J. Luhnig, J. Łukasik, W. G. Lynch, U. Lynen, Z. Majka, M. Mocko, W.F.J. Muller, A. Mykulyak, H. Orth, A.N. Otte, R. Palit, P. Pawlowski, A. Pullia, G. Raciti, E. Rapisarda, H. Sann, C. Schwarz, H. Simon, K. Summerer, W. Trautmann, M. B. Tsang, G. Verde, C. Volant, M. Wallace, H. Weick, J. Wiechula, A. Wieloch, B. Zwieglinski

Physical Review Letters 102, 152701 (2009)

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Discovery of a new broad resonance in ¹⁹Ne: Implications for the destruction of the cosmic γ -ray emitter ¹⁸F

J.C. Dalouzy, L. Achouri, M. Aliotta, C. Angulo, H. Benhabiles, C. Borcea, R. Borcea, P. Bourgault, A. Buta, A. Coc, A. Damman, T. Davinson, F. de Grancey, F. de Oliveira Santos, N. de Sereville, J. Kiener, M.G. Pellegriti, F. Negoita, A.M. Sanchez-Benitez, O. Sorlin, M. Stanoiu, I. Stefan, P.J. Woods

Physical Review Letters 102, 152701 (2009)

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<http://hal.in2p3.fr/in2p3-00370811/fr/>

Neutron yield from carbon, light- and heavy-water thick targets irradiated by 40 MeV deuterons

G. Lhersonneau, T. Malkiewicz, K. Kolos, M. Fadil, H. Kettunen, M.G. Saint-Laurent¹, A. Pichard¹, W.H. Trzaska, G. Tyurin, L. Cousin

NIM A 603 (2006) 228-235

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Fission times of excited nuclei: An experimental overview

D. Jacquet, M. Morjean

Progress in Particle and Nuclear Physics 63 (2009) 155-185

09 74 T

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Geant4 Monte Carlo simulations for the LPCTrap setup

D. Rodriguez, G. Ban, D. Durand, F. Duval, X. Fléchar, E. Liénard, F. Mauger, A. Méry³, O. Naviliat-Cuncic, J.-C. Thomas, and Ph. Velten

Eur. Phys. J. A (2009) (On Line First)

PHYSIQUE THEORIQUE

Shell Model in the Complex Energy Plane

N. Michel, W. Nazarewicz, M. Płoszajczak, T. Vertse

Journal of Physics G: Nuclear and Particle Physics 36 (2009) 013101

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09 01 T

Relevance of equilibrium in multifragmentation

T. Furuta, A. Ono

Physical Review C 79 (2009) 014608

<http://hal.in2p3.fr/in2p3-00354796/fr/>

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Density matrix functional theory for the Lipkin model

D. Lacroix

Physical Review C 79, 014301 (2009)

<http://hal.in2p3.fr/in2p3-00348461/fr/>

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Density matrix renormalization group approach to two-fluid open many-fermion systems

J. Rotureau, N. Michel, W. Nazarewicz, M. Płoszajczak, J. Dukelsky

Physical Review C 79, 014304 (2009)

<http://hal.in2p3.fr/in2p3-00327096/fr/>

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One-body energy dissipation in fusion reactions from mean-field theory

K. Washiyama, D. Lacroix, S. Ayik

Physical Review C 79, 024609 (2009)

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09 16 T

Global optical model potential for $A = 3$ projectiles

D.Y. Pang, P. Roussel-Chomaz, H. Savajols, R.L. Varner, R. Wolski

Physical Review C 79, 024615 (2009)

<http://hal.in2p3.fr/in2p3-00365132/fr/>

09 17 T

Criticality in the configuration-mixed interacting boson model: $(2) Q^{\sim} (\chi_1) Q^{\sim} (\chi_1) - Q^{\sim} (\chi_2) Q^{\sim} (\chi_2)$ mixing

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

Nuclear Physics A 819 (2009) 11–26

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Partial Dynamical Symmetry in Quantum Hamiltonians with Higher-Order Terms

J. E. Garcia-Ramos, A. Leviatan, P. Van Isacker

Physical Review Letters 102 (2009) 112502

09 26 T

<http://hal.in2p3.fr/in2p3-00349047/fr/>

Nuclear “bubble” structure in ^{34}Si

M. Grasso, L. Gaudefroy, E. Khan, T. Nikšić, J. Piekarczyk, O. Sorlin, N. Van Giai, D. Vretenar

Physical Review C 79, 034318 (2009)

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IBM-1 calculations towards the neutron-rich nucleus ^{106}Zr

S. Lalkovski and P. Van Isacker

Physical Review C 79, 044307 (2009)

09 64 T

<http://hal.in2p3.fr/in2p3-00369567/fr/>

Configuration mixing within the energy density functional formalism: Removing spurious contributions from nondiagonal energy kernels

D. Lacroix, T. Duguet, and M. Bender

Physical Review C 79, 044318 (2009)

09 65 T

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Particle-number restoration within the energy density functional formalism

M. Bender, T. Duguet, and D. Lacroix

Physical Review C 79, 044319 (2009)

09 66 T

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Particle-number restoration within the energy density functional formalism: Nonviability of terms depending on noninteger powers of the density matrices

T. Duguet, M. Bender, K. Bennaceur, D. Lacroix, and T. Lesinski

Physical Review C 79, 044320 (2009)

09 67 T

<http://hal.in2p3.fr/in2p3-00321224/fr/>

The interacting boson model for exotic nuclei

P. Van Isacker

Rivista del Nuovo Cimento 32 (2009) 71-104

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<http://hal.in2p3.fr/in2p3-00382692/fr/>

Probing neutron correlations through nuclear breakup

M. Assié, D. Lacroix

Physical Review Letters (2009) 202501

09 73 T

<http://hal.in2p3.fr/in2p3-00351191/fr/>

Fluctuation and dissipation dynamics in fusion reactions from stochastic mean-field approach

S. Ayik, K. Washiyama, D. Lacroix

Physical Review C 79 (2009) 054606

09 75 T

<http://hal.in2p3.fr/in2p3-00358844/fr/>

PHYSIQUE DES IONS RAPIDES/INTERDISCIPLINAIRE

Mechanical properties of cubic zirconia irradiated with swift heavy ions

V. Menvie Bekale, G. Sattonnay, C. Legros, A.M. Huntz, S. Poissonnet, L. Thomé

Journal of Nuclear Materials 384 (2009) 70–76

<http://hal.in2p3.fr/in2p3-00357527>

09 09 N

Damages induced by heavy ions in titanium silicon carbide: Effects of nuclear and electronic interactions at room temperature

J.C. Nappé, Ph. Grosseau, F. Audubert, B. Guilhot, M. Beauvy, M. Benabdesselam, I. Monnet
Journal of Nuclear Materials 385 (2009) 304-307

09 27 N

Ionization and fragmentation of water clusters by fast highly charged ions

L Adoui, A Cassimi, B Gervais, J-P Grandin, L Guillaume1,,
R Maisonnny, S Legendre,, M Tarisien, P Lopez-Tarifa, M-F Politis,
M-A Hervé du Penhoat, R Vuilleumier, M-PGageot, I Tavernelli,
M. Alcami, F Martin

J. Phys. B: At. Mol. Opt. Phys. 42 (2009) 075101 (5pp)

09 47 N

<http://hal.in2p3.fr/in2p3-00373737/fr/>

2E1 Ar17+ decay and conventional radioactive sources to determine efficiency of semiconductor detectors

E. Lamour, C. Prigent, B. Eberhardt, J.P. Rozet, D. Vernhet
Review of Scientific Instruments 80, (2009) 023103

09 48 N

Ionisation and fragmentation of tetraphenyl iron (III) porphyrin chloride induced by slow multiply charged ion impact

V. Bernigaud, B. Manil, L. Maunoury, J. Rangama, B.A. Huber

Eur. Phys. J. D 51, 125–130 (2009)

09 49 N

Different Mechanisms of Cell Death in Radiosensitive and Radioresistant P53 Mutated Head and Neck Squamous Cell Carcinoma Cell Lines Exposed to Carbon Ions and X-Rays

M. Maalouf, G. Alphonse, A. Colliaux, M. Beuve, S. Trajkovic-Bodennec, Pr. Battiston-Montagne, I. Testard, O. Chapet, M. Bajard, G. Taucher-Scholz, C. Fournier, C. Rodriguez-Lafrasse

International J. of Radiation Oncology*Biophysics, Vol. 74, Issue 1, (2009), 200-209

09 50 N

<http://hal.in2p3.fr/in2p3-00382723/fr/>

Scanning probe microscopy investigation of nanostructured surfaces induced by swift heavy ions

S. Akcöltekin, E. Akcöltekin, M. Schleberger, H. Lebius

J. Vac. Sci. Technol. B 27 (2009) 944-947

09 68 N

PHYSIQUE DES ACCELERATEUR

Studies of the ECR plasma using the TrapCAD code

L Maunoury, C Pierret, S Biri, J Y Pacquet

Plasma Sources Sci. Technol. 18 (2009) 015019 (7pp)

<http://hal-cea.archives-ouvertes.fr/cea-00359144/fr/>

09 15 C

COMPTES-RENDUS DE CONFERENCES

ACTES DE CONFERENCES DANS DES REVUES A COMITES DE LECTURE

PHYSIQUE NUCLÉAIRE THÉORIQUE

Features of exceptional points and the continuum spectroscopy

J. Okolowicz, M. Ploszajczak

Acta Physica Polonica B 40 (2009) 409

Zakopane Conference on Nuclear Physics, 1-7 Septembre, 2009, Zakopane, Pologne

09 28 T

<http://hal.in2p3.fr/in2p3-00341827/fr/>

About the inconsistency between Bohr-Wheeler's transition-state method and Kramer' escape rate in nuclear fission

K.-H. Schmidt

Int. J. of Modern Physics E Vol.18 (4) 2009 850-860

15th Workshop on Nuclear Physics "Marie and Pierre Curie" : 70 years of Fission, Kazimierz Dolny : Pologne (2008)

09 76 T

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PHYSIQUE NUCLÉAIRE

Recent results from GANIL

S. Franchoo, N.L. Achouri, A. Algora, A. Al-Khatib, J.-C. Angélique, F. Azaiez, D. Baiborodin, B. Bastin, D. Beaumel, M. Belleguic, G. Benzoni, Y. Blumenfeld, C. Borcea, R. Borcea, C. Bourgeois, P. Bringel, B.A. Brown, A. Bürger, A. Buta, R. Chapman, E. Clément, J.-C. Dalouzy, Z. Dlouhy, Z. Dombradi, A. Drouart, Z. Elekes, C. Engelhardt, S. Fortier, Z. Fülöp, L. Gaudefroy, M. Gélín, J. Gibelin, A. Görge, S. Grévy, D. Guillemaud-Mueller, F. Hammache, H. Hübel, S. Iacob, F. Ibrahim, K. Kemper, A. Kerek, W. Korten, A. Krasznahorkay, K.-L. Kratz, B. Laurent, M. Lazar, D. Lebhertz, M. Lewitowicz, X. Liang, E. Liénard, S. Lukyanov, S. Mandal, C. Monrozeau, J. Mrazek, L. Nalpas, A. Navin, F. Negoita, F. Nowacki, N. Orr, A. Ostrowski, T. Otsuka, D. Pantelica, Y. Penionzhkevich, J. Piekarewicz, Z. Podolyak, E. Pollacco, F. Pougheon, A. Poves, F. Rotaru, P. Roussel-Chomaz, E. Rich, J.-A. Scarpaci, M.-G. Saint-Laurent, H. Savajols, G. Sletten, D. Sohler, O. Sorlin, M. Stanoiu, I. Stefan, T. Suzuki, C. Theisen, J. Timar, C. Timis, E. Tryggestad, D. Verney, S. Williams, A. Yamamoto

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Zakopane Conference on Nuclear Physics, 1-7 Septembre, 2009, Zakopane, Pologne

09 29 A

<http://hal.in2p3.fr/in2p3-00371724/fr/>

The PARIS project

A. Maj, F. Azaiez, D. Jenkins, Ch. Schmitt, O. Stezowski, J.P. Wieleczko, D. Balabanski, P. Bednarczyk, S. Brambilla, F. Camera, D.R. Chakrabarty, M. Chełstowska, M. Ciemała, S. Courtin, M. Csatos, Z. Dombradi, O. Dorvaux, J. Dudek, M.N. Erduran, S. Ertürk, B. Fornal, S. Franchoo, G. Georgiev, J. Gulyás, S. Harissopoulos, P. Joshi, M. Kicińska-Habior, M. Kmiecik, A. Krasznahorkay, G. Anil Kumar, Suresh Kumar, M. Labiche, I. Mazumdar, K. Mazurek, W. Męczyński, S. Myalski, V. Nanal, P. Napiorkowski, J. Peyre, J. Pouthas, O. Roberts, M. Rousseau, J.A. Scarpaci, A. Smith, I. Stefan, J. Strachan, D. Watts, M. Ziębliński

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09 30 A

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N/Z influence on disintegration modes of compound nuclei

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

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Zakopane Conférence on Nuclear Physics, 1-7 Septembre, 2009, Zakopane, Pologne
09 31 A

<http://hal.in2p3.fr/in2p3-00329356/fr/>

Gas scintillation chamber for superheavy elements detection at GANIL

Z. Sosin, A. Wieloch, J. Péter, A. Drouart, R. Dayras, K. Łojek, C. Stodel, M. Adamczyk, A. Gonciarz, P. Bańka, P. Lasko, L. Zosiak, N. Alamanos, N. Amar, R. Anne, J.C. Angélique, G. Auger, J.M. Fontbonne, A. Gillibert, S. Grévy, F. Hanappe, F. Hannachi, R. Hue, A. Khouaja, T. Legou, A. Lopez-Martens, E. Liénard, L. Manduci, F. de Oliveira Santos, G. Politi, M.G. Saint-Laurent, L. Stuttgé, J. Tillier, R. de Turreil, A.C.C. Villari, J.P. Wieleczko

Acta Physica Polonica B 40 (2009) 741

Zakopane Conférence on Nuclear Physics, 1-7 Septembre, 2009, Zakopane, Pologne
09 32 A

<http://hal.in2p3.fr/in2p3-00371740/fr/>

The SPIRAL2 project : physics and challenges

M. Lewitowicz

Acta Physica Polonica B 40 (2009) 811

Zakopane Conférence on Nuclear Physics, 1-7 Septembre, 2009, Zakopane, Pologne
09 33 A

<http://hal.in2p3.fr/in2p3-00329294/fr/>

Low-Energy Spectra of ^8He and ^{10}He Studied in (t,p) Type Reactions in Inverse Kinematics

V. Chudoba, A.S. Fomichev, M.S. Golovkov, V.A. Gorshkov, S.A. Krupko et al

Acta Physica Polonica B 40 (2009) 899

Zakopane Conférence on Nuclear Physics, 1-7 Septembre, 2009, Zakopane, Pologne
09 34 A

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Isotopic dependence of the caloric curve

W. Trautmann, 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, M. De Napoli, J.-É. Ducret, H. Emling, J.D. Frankland, M. Hellström, D. Henzlova, G. Immè, I. Iori, H. Johansson, K. Kezzar, A. Lafriakh, A. Le Fèvre, E. Le Gentil, Y. Leifels, J. Lühning, J. Lukasik, W.G. Lynch, U. Lynen, Z. Majka, M. Mocko, W.F.J. Müller, A. Mykulyak, H. Orth, A.N. Otte, R. Palit, P. Pawowski, A. Pullia, G. Raciti, E. Rapisarda, H. Sann, C. Schwarz, C. Sfienti, H. Simon, K. Sümmerer, M.B. Tsang, G. Verde, C. Volant, M. Wallace, H. Weick, J. Wiechula, A. Wieloch, B. Zwięgliski

Progress in Particle and Nuclear Physics 62 (2009) 407-412

International Workshop on Nuclear Physics 30th Course - Heavy-Ion Collisions from the Coulomb Barrier to the Quark–Gluon Plasma, Erice : Italie (2008)

09 59 A

<http://hal.in2p3.fr/in2p3-00377878/fr/>

Dynamical Signals in Fragmentation Reactions: Time Scale Determination from Three Fragments Correlations by Using the 4 π CHIMERA Multidetector

E. De Filippo, F. Amorini, A. Anzalone, L. Auditore, V. Baran, I. Berceanu, J. Blicharska, B. Borderie¹, R. Bougault, M. Bruno, J. Brzychczyk, G. Cardella, S. Cavallaro, M.B. Chatterjee, A. Chbihi, M. Colonna, M. D'Agostino, R. Dayras, M. Di Toro, U. Emanuele, J. Frankland, E. Galichet, W. Gawlikowicz, E. Geraci, F. Giustolisi, L. Grassi, A. Grzeszczuk, P. Guazzoni, D. Guinet, S. Kowalski, E. La Guidara, G. Lanzalone, G. Lanzañ, N. Le Neindre, I. Lombardo, C. Maiolino, Z. Majka, A. Pagano, M. Papa, M. Petrovici, E. Piasecki, S. Pirrone, R. Płaneta, G. Politi, A. Pop, F. Porto, M.F. Rivet¹, E. Rosato, F. Rizzo, P. Russotto, K. Schmidt, K. Siwek-Wilczyńska, I. Skwira, A. Sochocka, A. Trifirñ, M. Trimarchi, G. Verde, M. Vigilante, J.P. Wieleczko, J. Wilczyński, L. Zetta, W. Zipper

Acta Physica Polonica B 40 (2009) 1199-1207

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09 72 A

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PHYSIQUE DES IONS RAPIDES/INTERDISCIPLINAIRE

Young-type interferences using single-electron sources and an atomic-size two-center interferometer: Dependence with interferometer parameters

F. Frémont, S. Suarez, R.O. Barrachina, A. Hajaji, N. Sisourat, A. Dubois, J.-Y. Chesnel

Nuclear Instruments and Methods in Physics Research B 267 (2009) 206–210

Fourth International Conference on Elementary Processes in Atomic Systems (CEPAS-2008), Cluj-Napoca, Romania, 18-20 June 2008, Edited by Károly Tökési

09 07 N

Anisotropic ion emission in the fragmentation of small molecules by highly charged ion impact

Z. Juhász, B. Sulik, F. Frémont, A. Hajaji, J.-Y. Chesnel

Nuclear Instruments and Methods in Physics Research B 267 (2009) 326-329

Fourth International Conference on Elementary Processes in Atomic Systems (CEPAS-2008), Cluj-Napoca, Romania, 18-20 June 2008, Edited by Károly Tökési

09 08 N

AODO: Secondary ion emission and surface modification

S. Akcöltekin, I. Alzaher, B. Ban d'Etat, T. Been, P. Boduch, A. Cassimi, H. Hijazi, H. Lebius, B. Manil, J.M. Ramillon, H. Rothard, M. Schleberger, E.F. da Silveira
Nuclear Instruments and Methods in Physics Research B 267 (2009) 649–651
17th International Workshop on Inelastic Ion-Surface Collisions (IISC-17), Porquerolles, France, 21–26 September 2008
09 21 N

Imaging dynamics of charge-auto-organisation in glass capillaries

A. Cassimi, L. Maunoury, T. Muranaka, B. Huber, K.R. Dey, H. Lebius, D. Lelièvre, J.M. Ramillon, T. Been, T. Ikeda, Y. Kanai, T.M. Kojima, Y. Iwai, Y. Yamazaki, H. Khemliche, N. Bundaleski, P. Roncin
Nuclear Instruments and Methods in Physics Research B 267 (2009) 674–677
17th International Workshop on Inelastic Ion-Surface Collisions (IISC-17), Porquerolles, France, 21–26 September 2008
09 22 N

Enhanced susceptibility of CaF₂(111) to adsorption due to ion irradiation

S. Akcöltekin, T. Roll, E. Akcöltekin, M. Klusmann, H. Lebius, M. Schleberger
Nuclear Instruments and Methods in Physics Research B 267 (2009) 683–686
17th International Workshop on Inelastic Ion-Surface Collisions (IISC-17), Porquerolles, France, 21–26 September 2008
09 23 N

Study of ion emission from a germanium crystal surface under impact of fast Pb ions in channeling conditions

A. L'Hoir, C. Koumeir, S. Della Negra, P. Boduch, P. Roussel-Chomaz, A. Cassimi, M. Chevallier, C. Cohen, D. Dauvergne, M. Fallavier, D. Jacquet, B. Manil, J.-C. Poizat, C. Ray, H. Rothard, D. Schmaus, M. Toulemonde
Nuclear Instruments and Methods in Physics Research B 267 (2009) 876-880
Seventh International Symposium on Swift Heavy Ions in Matter, Lyon, France, 02-05 Jun 2008
09 37 N
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Atom probe tomography of swift ion irradiated multilayers

J. Juraszek, A. Grenier, J. Teillet, E. Cadel, N. Tiercelin, I. Monnet, M. Toulemonde
Nuclear Instruments and Methods in Physics Research B 267 (2009) 912-916
Seventh International Symposium on Swift Heavy Ions in Matter, Lyon, France, 02-05 Jun 2008
09 38 N

Swelling and optical properties of Si₃N₄ films irradiated in the electronic regime

B. Canut, A. Ayari, J. Dupuis, M. Lemiti, A. Fave, S. Ramos
Nuclear Instruments and Methods in Physics Research B 267 (2009) 917-920
Seventh International Symposium on Swift Heavy Ions in Matter, Lyon, France, 02-05 Jun 2008
09 39 N

Dislocation mobility study of heavy ion induced track damage in LiF crystals

I. Manika, J. Maniks, M. Toulemonde, K. Schwartz
Nuclear Instruments and Methods in Physics Research B 267 (2009) 949-952
Seventh International Symposium on Swift Heavy Ions in Matter, Lyon, France, 02-05 Jun 2008
09 40 N

Defects creation in sapphire by swift heavy ions: A fluence depending process

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

Nuclear Instruments and Methods in Physics Research B 267 (2009) 957-959

Seventh International Symposium on Swift Heavy Ions in Matter, Lyon, France, 02-05 Juin 2008
09 41 N

Effects of electronic and nuclear interactions in SiC

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

Nuclear Instruments and Methods in Physics Research B 267 (2009) 976-979

Seventh International Symposium on Swift Heavy Ions in Matter, Lyon, France, 02-05 Juin 2008
09 42 N

Amorphisation of ZnAl₂O₄ spinel under heavy ion irradiation

A. Quentin, I. Monnet, D. Gosset, B. Lefrançois, S. Bouffard

Nuclear Instruments and Methods in Physics Research B 267 (2009) 980-982

Seventh International Symposium on Swift Heavy Ions in Matter, Lyon, France, 02-05 Juin 2008
09 43 N

Dose profile monitoring with carbon ions by means of prompt-gamma measurements

E. Testa, M. Bajard, M. Chevallier, D. Dauvergne, F. Le Foulher, N. Freud, J.M. Létang, J.C. Poizat, C. Ray, M. Testa

Nuclear Instruments and Methods in Physics Research B 267 (2009) 993-996

Seventh International Symposium on Swift Heavy Ions in Matter, Lyon, France, 02-05 Juin 2008
09 44 N

Optimization of nanopores obtained by chemical etching on swift-ion irradiated lithium niobate

M.L. Crespillo, M. Otto, A. Munoz-Martin, J. Olivares, F. Agulló-López, M. Seibt, M. Toulemonde, C. Trautmann

Nuclear Instruments and Methods in Physics Research B 267 (2009) 1035-1038

Seventh International Symposium on Swift Heavy Ions in Matter, Lyon, France, 02-05 Juin 2008
09 45 N

Investigation of initial stage of chemical etching of ion tracks in polycarbonate

N. Sertova, E. Balanzat, M. Toulemonde, C. Trautmann

Nuclear Instruments and Methods in Physics Research B 267 (2009) 1039-1044

Seventh International Symposium on Swift Heavy Ions in Matter, Lyon, France, 02-05 Juin 2008
09 46 N

Study of the damage produced in silicon carbide by high energy heavy ions

A. Benyagoub, A. Audren

Nuclear Instruments and Methods in Physics Research B 267 (2009) 1255-1258

16th International Conference on Ion Beam Modification of Materials, Dresden, Germany, 31 August–5 September 2008
09 60 N

Patterning of insulating surfaces by electronic excitation

S. Akcöltekin, E. Akcöltekin, T. Roll, H. Lebius, M. Schleberger

Nuclear Instruments and Methods in Physics Research B 267 (2009) 1386-1389

16th International Conference on Ion Beam Modification of Materials, Dresden, Germany, 31 August–5 September 2008
09 61 N

Radiation tolerance of fluorite-structured oxides subjected to swift heavy ion irradiation

F. Garrido, S. Moll, G. Sattonnay, L. Thomé, L. Vincent

Nuclear Instruments and Methods in Physics Research B 267 (2009) 1451-1455

16th International Conference on Ion Beam Modification of Materials, Dresden, Germany, 31 August–5 September 2008

09 62 N

<http://hal.in2p3.fr/in2p3-00379415/fr/>

Radiation effects in cubic zirconia: A model system for ceramic oxides

L. Thomé, S. Moll, G. Sattonnay, L. Vincent, F. Garrido, J. Jagielski

Journal of Nuclear Materials 389 (2009) 297–302

Particle Beam Induced Radiation Effects in Materials, New Orleans : États-Unis d'Amérique (2008)

09 63 N

<http://hal.in2p3.fr/in2p3-00379450/fr/>

ACTES DE CONFERENCES DANS DES OUVRAGES

PHYSIQUE NUCLEAIRE THÉORIQUE

Robust Calculation of Nuclear Masses by means of Image Reconstruction

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

AIP Conférence Proceedings 1090 (2009) 246-252

Capture gamma-Ray Spectroscopy and related Topics : Proceedings of the 13th International Symposium on Capture gamma-Ray Spectroscopy and related Topics, Cologne (Germany) 25-29 août 2008.

09 24 T

<http://hal.in2p3.fr/in2p3-00368786/fr/>

Extraction of nucleus-nucleus potential and energy dissipation from dynamical mean-field theory

K. Washiyama, D. Lacroix

AIP Conférence Proceedings 1098 (2009) 70-75

FUSION08: New Aspects of Heavy Ion Collisions Near the Coulomb Barrier, Chicago : États-Unis d'Amérique (2008)

09 53 T

<http://hal.in2p3.fr/in2p3-00341683/fr/>

Exact Stochastic Mean-Field dynamics

Lacroix D., Hupin G.

AIP Conférence Proceedings 1098 (2009) 128-132

FUSION08: New Aspects of Heavy Ion Collisions Near the Coulomb Barrier, Chicago : États-Unis d'Amérique (2008)

09 54 T

<http://hal.in2p3.fr/in2p3-00348464>

PHYSIQUE NUCLEAIRE

Measurement of the Gamow-Teller Branching Ratio in the beta-Decay of ^{21}Na

N.L. Achouri, J.-C. Angélique, G. Ban, B. Bastin, B. Blank, S. Dean, P. G. Dendooven, J. Giovinazzo, S. Grévy, K. Jungmann, B. Laurent, F. E. Liénard, O. Naviliat-Cuncic, N. A. Orr1, A. Rogachevskiy, M. Sohani, E. Traykov, H. Wilschut

AIP Conférence Proceedings 1090 (2009) 362-366

Capture gamma-Ray Spectroscopy and related Topics : Proceedings of the 13th International Symposium on Capture gamma-Ray Spectroscopy and related Topics, Cologne (Germany) 25-29 août 2008.

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Influence of the N/Z ratio on disintegration modes of compound nuclei

J.P. Wieleczo, E. Bonnet, J. Gomez Del Campo, M. La Commara, M. Vigilante, J.D. Frankland, A. Chbihi, E. Rosato, G. Spadaccini, A. Galindo-Uribarri, D. Shapira, C. Beck, B. Borderie, R. Bougault, R. Dayras, G. De Angelis, P. Loutesse, N. Le Neindre, A. D'onofrio, M. Parlog, D. Pierroutsakou, F. Rejmund, M.F. Rivet, M. Romoli, R. Roy

AIP Conférence Proceedings 1098 (2009) 64-69

FUSION08: New Aspects of Heavy Ion Collisions Near the Coulomb Barrier, Chicago : États-Unis d'Amérique (2008)

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<http://hal.in2p3.fr/in2p3-00375772/fr/>

Transfer and breakup of light weakly-bound nuclei

Raabe R.

AIP Conférence Proceedings 1098 (2009) 257-263

FUSION08: New Aspects of Heavy Ion Collisions Near the Coulomb Barrier, Chicago : États-Unis d'Amérique (2008)

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PHYSIQUE DES ACCELATEURS

Solid state RF amplifiers for accelerator applications

M. Di Giacomo

Proceedings of the Particle Accelerator Conférence (PAC09), Vancouver (Canada) 4-8 mai 2009, 1-5

09 69 C

<http://hal.in2p3.fr/in2p3-00382152/fr/>

SPIRAL 2 injector diagnostics

P. Ausset, T.A. Andre, C. Doutressoulles, B. Ducoudret, C. Jamet, W. Le Coz, F. Lpoittevin, E. Swartvagher, J.L. Vignet, C. Maazouzi, C. Olivetto, C. Ruescas

Proceedings of DIPAC09 (2009) 1-3

9th European Workshop on Beam Diagnostics and Instrumentation for Particle Accelerators (DIPAC 2009), Basel : Suisse (2009)

09 77 C

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PRETIRAGES

PRETIRAGES GANIL

GANIL P 09 01/arXiv : 0901.0470

From Di-Nucleus to Mono-Nucleus - Neck Evolution in Fusion of Massive Systems –

Y. Abe, C. Shen, D. Boilley, B.G. Giraud

Proceedings of the Japanese French Symposium - New paradigms in Nuclear Physics, Paris, 29th September - 2nd October, to be published in Int. J. of Modern Physics E

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GANIL P 09 02

Influence of the N/Z ratio on disintegration modes of compound nuclei

J.P. Wieleczko, E. Bonnet, J. Gomez Del Campo, M. La Commara, M. Vigilante, J.D. Frankland, A. Chbihi, E. Rosato, G. Spadaccini, A. Galindo-Uribarri, D. Shapira, C. Beck, B. Borderie, R. Bougault, R. Dayras, G. De Angelis, P. Loutesse, N. Le Neindre, A. D'onofrio, M. Parlog, D. Pierroutsakou, F. Rejmund, M.F. Rivet, M. Romoli, R. Roy

FUSION08: International Conference on Heavy Ion Collisions near the Coulomb Barrier, Chicago : États-Unis d'Amérique, 22-26 septembre 2008

<http://hal.in2p3.fr/in2p3-00375772/fr/>

GANIL P 09 03

Absolute cross-sections from X – γ coincidence measurements

A. Lemasson, A. Shrivastava, A. Navin, M. Rejmund, V. Nanal, S. Bhattacharyya, A. Chatterjee, S. Kailas, K. Mahata, V.V. Parkar, R.G. Pillay, K. Ramachandran, P.C. Rout

<http://hal.in2p3.fr/in2p3-00348478>

GANIL P 09 04/arXiv : 0901.0848

Probing neutron correlations through nuclear break-up

M. Assie, D. Lacroix

<http://hal.in2p3.fr/in2p3-00351191/fr/>

GANIL P 09 05/arXiv : 0902.0592

Fluctuation and dissipation dynamics in fusion reactions from stochastic mean-field approach

S. Ayik, K. Washiyama, D. Lacroix

<http://hal.in2p3.fr/in2p3-00358844/fr/>

GANIL P 09 06/arXiv : 0902.3889

Structure of many-body continuum states in the proximity of exceptional points

J. Okolowicz, and M. Ploszajczak

<http://hal.in2p3.fr/in2p3-00365054>

GANIL P 09 07/ arXiv : 0903.3826

IBM-1 calculations towards the neutron-rich nucleus ^{106}Zr

S. Lalkovski, P. Van Isacker

<http://hal.in2p3.fr/in2p3-00369567/fr/>

GANIL P 09 08**Discovery of a new broad resonance in ^{19}Ne : Implications for the destruction of the cosmic γ -ray emitter ^{18}F**

J.C. Dalouzy, L. Achouri, M. Aliotta, C. Angulo, H. Benhabiles, C. Borcea, R. Borcea, P. Bourgault, A. Buta, A. Coc, A. Damman, T. Davinson, F. de Grancey, F. de Oliveira Santos, N. de Sereville, J. Kiener, M.G. Pellegriti, F. Negoita, A.M. Sanchez-Benitez, O. Sorlin, M. Stanoiu, I. Stefan, P.J. Woods

GANIL P 09 09, arXiv : 0904.3047**Collision dynamics of two ^{238}U atomic nuclei**

C Golabek, C Simenel

<http://hal.archives-ouvertes.fr/hal-00376996/fr/>

GANIL P 09 10**Revisiting the even-odd staggering in fission fragment yields**

M. Caamano, F. Rejmund, K.-H. Schmidt

4th International Workshop on Nuclear Fission and Fission-Product Spectroscopy (FISSION 2009), Saint Paul lez Durance : France (2009)

<http://hal.in2p3.fr/in2p3-00385083/fr/>

GANIL P 09 11**Isotopic Resolution of Fission Fragments from $^{238}\text{U}+^{12}\text{C}$ Transfer and Fusion Reactions**

M. Caamaño, F. Rejmund, X. Derkx, K.-H. Schmidt, L. Andouin, C.-O. Bacri, G. Barreau, J. Benlliure, E. Casarejos, B. Fernández-Domínguez, L. Gaudefroy, C. Golabek, B. Jurado, A. Lemasson, A. Navin, M. Rejmund, T. Roger, A. Shrivastava, C. Schmitt, J. Taieb

4th International Workshop on Nuclear Fission and Fission-Product Spectroscopy (FISSION 2009), Saint Paul lez Durance : France (2009)

<http://hal.in2p3.fr/in2p3-00396876/fr/>

GANIL P 09 12, arXiv : 0906.4272**Precision measurement of the electric quadrupole moment of ^{31}Al and determination of the effective proton charge in the sd-shell**

M. De Rydt, G. Neyens, K. Asahi, D.L. Balabanski, J.M. Daugas, M. Depuydt, L. Gaudefroy, S. Grévy, Y. Hasama, Y. Ichikawa, P. Morel, T. Nagatomo, T. Otsuka, L. Perrot, K. Shimada, C. Stodel, J.C. Thomas, H. Ueno, Y. Utsuno, W. Vanderheijden, N. Vermeulen, P. Vingerhoets, A. Yoshimi

<http://hal.in2p3.fr/in2p3-00397999/fr/>

PRETIRAGES RELATIFS À GANIL

arXiv : 0903.1772

Isotopic Dependence of the Nuclear Caloric Curve

C. Sfonti, P. Adrich, T. Aumann, C. O. Bacri, T. Barczyk et al
The ALADIN2000 Collaboration

<http://hal.in2p3.fr/in2p3-00367337/fr/>

arXiv : 0904.2653

Microscopic description of heavy ion collisions around the barrier

C. Simenel, B. Avez, C. Golabek

<http://hal.archives-ouvertes.fr/hal-00376251/fr/>

RAPPORTS

GANIL2015

Evaluation de l'extension de la ligne LISE2000

L. Perrot (IPN Orsay), S. Grévy, F. Chautard, R. Hue, O. Kamalou (GANIL Caen)

<http://hal.in2p3.fr/in2p3-00370151/fr/>