

GRUPE PHYSIQUE  
DOCUMENTATION



## Edition du 12 mars 2014

Date de début de la période : 1er janvier 2012

Date de fin de la période : 31 décembre 2012

Production Scientifique du GANIL : 157

Publications relatives au GANIL dans des revues à comité de lecture : 95

Actes de Conférences : 62

Physique nucléaire : 73 (46/27)

Théorie : 22 (13/9)

Instrumentation/Physique des accélérateurs : 25 (8/17)

Interdisciplinaire : 34 (26/8)

Nombre de publications « GANIL » avec texte intégral en accès libre dans HAL-IN2P3 : 46

Nombre de publications « Expérience GANIL » : 35

Thèses GANIL : 3

Thèses et HDR relatives à GANIL : 3

Rapports GANIL : 2

Publications du GANIL : <http://hal.in2p3.fr/GANIL/fr/>

Analyse bibliométrique de la production scientifique du GANIL (d'après le Web of Science):

Journal	Impact Factor *	Nombre
Nature	36.280	1
Physical Review Letters	7.37	8
Physics Letters B	3.955	4
Physical Review C	3.308	34
Annals of Physics (NY)	2.857	2
EPL-EUROPHYS LETT	2.171	1
EUR. PHYS. J. A	2.19	3
Journal of Instrumentation	1.869	2
Nuclear Physics	1.54	1
Review of Scientific Instruments	1.367	7
NIM A	1.207	5
Physica Scripta	1.204	1
NIM B	1,211	1
Modern Physics Letters A	1.083	1
Acta Physica Polonica B	0.901	3
Int. J. Modern Physics E	0.597	1
Prog. of Theor. Phys. Supp.	1,063	4
AIP Conference Proceedings	nr	4
EAS Publications Series	nr	1
EPJ Web of Conferences	nr	12
Hyperfine Interactions	nr	3
Journal of Physics: Conference Series	nr	8
Proceedings of Science	nr	1
Proceedings of IPAC2012	nr	2
Proceedings of HIAT2012	nr	1
Proceedings of ECRIS2012	nr	3
		114

\*J.C.R. (2011) : Web of science : <http://bibliosciences.inist.fr/>

## **PHYSIQUE NUCLEAIRE**

**Evolution of the N = 50 gap from Z = 30 to Z = 38 and extrapolation toward 78Ni**

M.-G. Porquet and O. Sorlin

**Physical Review C 85, 014307 (2012)**

2012-008 A

<http://hal.in2p3.fr/in2p3-00657190/fr/>

**Angular dependence in proton-proton correlation functions in central  $^{40}\text{Ca}+^{40}\text{Ca}$  and  $^{48}\text{Ca}+^{48}\text{Ca}$  reactions**

V. Henzl, M. A. Kilburn, Z. Chajecki, D. Henzlova, W. G. Lynch, D. Brown, A. Chbihi, D. D. S. Coupland, P. Danielewicz, R. T. deSouza, M. Famiano, C. Herlitzius, S. Hudan, Jenny Lee, S. Lukyanov, A. M. Rogers, A. Sanetullaev, L. G. Sobotka, Z. Y. Sun, M. B. Tsang, A. Vander Molen, G. Verde, M.S. Wallace, and M. Youngs

**Physical Review C 85, 014606 (2012)**

2012-009 A

<http://hal.in2p3.fr/in2p3-00661267>

**Spectroscopy of  $^{26}\text{F}$**

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

**Physical Review C 85, 017303 (2012)**

2012-010 A

<http://hal.in2p3.fr/in2p3-00656774>

**Low-lying neutron f p-shell intruder states in  $^{27}\text{Ne}$**

S. M. Brown, W. N. Catford, J. S. Thomas, B. Fernandez-Dominguez, N. A. Orr, M. Labiche, M. Rejmund, N. L. Achouri, H. Al Falou, N. I. Ashwood, D. Beaumel, Y. Blumenfeld, B. A. Brown, R. Chapman, M. Chartier, N. Curtis, G. de France, N. de Sereville, F. Delaunay, A. Drouart, C. Force, S. Franchoo, J. Guillot, P. Haigh, F. Hammache, V. Lapoux, R. C. Lemmon, A. Leprince, F. Maréchal, X. Mougeot, B. Mougnot, L. Nalpas, A. Navin, N. P. Patterson, B. Pietras, E. C. Pollacco, A. Ramus, J. A. Scarpaci, I. Stefan, and G. L. Wilson

**Physical Review C 85, 011302(R) (2012)**

2012-011 A

<http://hal.in2p3.fr/in2p3-00662400>

**Resonances in  $^{19}\text{Ne}$  with relevance to the astrophysically important  $^{18}\text{F}(p,\alpha)^{15}\text{O}$  reaction**

D. J. Mountford, A. St J. Murphy, N. L. Achouri, C. Angulo, J. R. Brown, T. Davinson, F. de Oliveira Santos, N. de Séréville, P. Descouvemont, O. Kamalou, A. M. Laird, S. T. Pittman, P. Ujic, and P. J. Woods

**Physical Review C 85 (2012) 022801**

2012-012 A

<http://hal.in2p3.fr/in2p3-00654167>

### **Near- and sub-barrier fusion of 200 incident ions with $^{12}\text{C}$ target nuclei**

M. J. Rudolph, Z. Q. Gosser, K. Brown, S. Hudan, and R. T. de Souza, A. Chbihi, B. Jacquot, M. Famiano, J.F. Liang, D. Shapira, D. Mercier

**Physical Review C 85 (2012) 024605**

2012-013 A

<http://hal.in2p3.fr/in2p3-00668165>

### **Neutron-induced cross sections of short-lived nuclei via the surrogate reaction method**

G. Boutoux, B. Jurado, V. Méot, O. Roig, M. Aïche, L. Mathieu, G. Barreau, N. Capellan, I. Companis, S. Czajkowski, J. T. Burke, E. Bauge, J.M. Daugas, T. Faul, L. Gaudefroy, P. Morel, N. Pillet, P. Romain, J. Taieb, C. Théroine, X. Derkx, O. Sérot, I. Matea, L. Tassan-Got and F. Gunsing

**EPJ Web of Conferences 21 (2012) 01002**

CNR\*11 – Third International Workshop on Compound Nuclear Reactions and Related Topics , Prague, Czech Republic, September 19–23, 2011

2012-017 A

<http://hal.in2p3.fr/in2p3-00625977>

### **Asymmetric Fission in the $^{78}\text{Kr}+^{40}\text{Ca}$ reactions at 5.5 MeV/nucleon**

J.P. Wieleczko, G. Ademard, K. Mazurek, C. Schmitt, E. Bonnet, A. Chbihi, J.D. Frankland, J. Gomez del Campo, M. La Commara, M. Vigilante, E. Rosato, G. Spadaccini, C. Beck , S. Barlini , B. Borderie , R. Bougault , R. Dayras , G. De Angelis, J. De Sanctis, V.L. Kravchuk, P. Loutesse, N. Le Neindre, A. D'Onofrio, M. Parlog, D. Pierroutsakou, M. Romoli, and R. Roy

**EPJ Web of Conferences 21 (2012) 02001**

CNR\*11 – Third International Workshop on Compound Nuclear Reactions and Related Topics , Prague, Czech Republic, September 19–23, 2011

2012-018 A

<http://hal.in2p3.fr/in2p3-00625611>

### **Study and comparison of the decay modes of the systems formed in the reactions $^{78}\text{Kr}+^{40}\text{Ca}$ and $^{86}\text{Kr}+^{48}\text{Ca}$ at 10 AMeV**

G. Politi, S. Pirrone, M. La Commara, J.P. Wieleczko, G. Ademard, E. De Filippo, M. Vigilante, F. Amorini, L. Auditore, C. Beck, I. Berceanu, E. Bonnet, B. Borderie, G. Cardella, A. Chbihi, M. Colonna, A. D'Onofrio, J.D. Frankland, E. Geraci, E. Henry, E. LaGuidara, G. Lanzalone, P. Loutesse, D. Lebhertz, N. LeNeindre, I. Lombardo, D. Loria, K. Mazurek, A. Pagano, M. Papa, E. Piasecki, F. Porto, M. Quinlann, F. Rizzo, E. Rosato, P. Russotto, W.U. Schroeder, G. Spadaccini, A. Trifirò, J. Toke, M. Trimarchi and G. Verde

**EPJ Web of Conferences 21 (2012) 02003**

CNR\*11 – Third International Workshop on Compound Nuclear Reactions and Related Topics , Prague, Czech Republic, September 19–23, 2011

2012-019 A

<http://hal.in2p3.fr/in2p3-00625615>

### **In-beam spectroscopic studies of the $^{44}\text{S}$ nucleus**

L. Caceres, D. Sohler, S. Grévy, O. Sorlin, Zs. Dombradi, B. Bastin,, N. L. Achouri, J. C. Angélique, F. Azaiez, D. Baiborodin, R. Borcea, C. Bourgeois, A. Buta, A. Burger, R. Chapman, J. C. Dalouzy, Z. Dlouhy, A. Drouard, Z. Elekes, S. Franchoo, L. Gaudefroy, S. Iacob, B. Laurent, M. Lazar, X. Liang, E. Liénard, J. Mrazek, L. Nalpas, F. Negoita, F. Nowacki, N.A. Orr, Y. Penionzhkevich, Zs. Podolyak, F. Pougheon, A. Poves, P. Roussel-Chomaz, M.G. Saint-Laurent, M. Stanoiu, and I. Stefan

**Physical Review C 85 (2012) 024311**

2012-020 A

<http://hal.in2p3.fr/in2p3-00657202/fr/>

### **Scattering of $8\text{He}$ on $208\text{Pb}$ at Energies Around the Coulomb Barrier**

G. Marquínez-Durán, A.M. Sánchez Benítez, I. Martel, R. Berjillos, J. Dueñas, V.V. Parkar, L. Acosta, K. Rusek, M.A.G. Álvarez, J. Gómez-Camacho, M.J.G. Borge, C. Cruz, M. Cubero, V. Pseudo, O. Tengblad, A. Chbihi, J.P. Fernández-García, B. Fernández-Martínez, J.A. Labrador, A.H. Ziad, J.L. Flores, N. Keeley, L. Standylo, I. Strojek, M. Marques, M. Mazzocco, A. Pakou, N. Patronis, D. Pierroutsakou, R. Silvestri, R. Raabe, N. Soic, R. Wolski

**Acta Physica Polonica B Vol. 43, No. 2, February 2012, page 239**

XXXII Mazurian Lakes Conference on Physics, Piaski, Poland, September 11-18, 2011  
2012-022 A

<http://hal.in2p3.fr/in2p3-00671026>

### **Two Proton Radioactivity Studies with a Time Projection Chamber**

P. Ascher, N. Adimi, L. Audirac, B. Blank, F. Delalee, C.-E. Demonchy, J. Giovinazzo, T. Kurtukian-Nieto, S. Leblanc, J.-L. Pedroza, J. Pibernat, L. Serani, F. de Oliveira Santos, S. Grévy, J.-C. Thomas, L. Perrot, P. Srivastava, C. Borcea, I. Companis, L.V. Grigorenko, B.A. Brown

**Acta Physica Polonica B Vol. 43, No. 2, February 2012, page 261**

XXXII Mazurian Lakes Conference on Physics, Piaski, Poland, September 11-18, 2011  
2012-023 A

<http://hal.in2p3.fr/in2p3-00671030>

### **S3: Pushing Spectroscopy Forward**

J. Piot on behalf of the S3 Collaboration

**Acta Physica Polonica B Vol. 43, No. 2, February 2012, 285**

XXXII Mazurian Lakes Conference on Physics, Piaski, Poland, September 11-18, 2011  
2012-024 A

<http://hal.in2p3.fr/in2p3-00680276>

### **Erratum: Isospin-dependent multifragmentation of relativistic projectiles**

**[Phys. Rev. C 83, 024608 (2011)]**

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

2012-025 A

**Physical Review C 85 (2012) 019903 (E)**

<http://hal.in2p3.fr/in2p3-00680282>

### **Penning-trap mass measurements of the neutron-rich K and Ca isotopes:**

#### **Resurgence of the $N = 28$ shell strength**

A. Lapierre, M. Brodeur, T. Brunner, S. Ettenauer, P. Finlay, A. T. Gallant, V. V. Simon, P. Delheij, D. Lunney, R. Ringle, H. Savajols, and J. Dilling

**Physical Review C 85 (2012) 024317**

2012-026 A

<http://hal.in2p3.fr/in2p3-00639035>

### **Towards an intense radioactive $8\text{Li}$ beam at SARAF Phase I**

T.Y. Hirsh, D. Berkovits, M. Hass, P. Jardin, A. Pichard, M.L. Rappaport, Y. Shachar and I. Silverman

**Journal of Physics: Conference Series 337 (2012) 012010**  
Nuclear Physics inAstrophysicsV, Eilat (Israel), April 3-8, 2011  
2012-027 A  
<http://hal.in2p3.fr/in2p3-00675614/fr>

**Astrophysical(alpha, gamma) reaction in inverse kinematics; Electron screening effect in the beta-decay**

P Ujjic, F de Oliveira, A Lagoyannis, T J Mertzimekis, S Harissopoulos, P Demetriou, A Spyrou, C Stodel, MGSaint-Laurent, O Kamalou, A Lefebvre-Schuhl, S Grevy, L Caceres, M Lewitowicz, M A Amthor, L Perot, A Coc, V Tatischeff, J Kiener, O Sorlin, A Lepailleur, M Assié, B Bastin, L Achouri, R Borcea, C Borcea, M Stanoiu, G de France, E Clement, A Pautrat, A Buta, L Gaudefroy, V Meot and I Deloncle

**Journal of Physics: Conference Series 337 (2012) 012015**  
Nuclear Physics inAstrophysicsV, Eilat (Israel), April 3-8, 2011  
2012-028 A  
<http://hal.in2p3.fr/in2p3-00675011>

**Decay of 48-50Ar isotopes**

L. Weissman, U. Bergmann, J. Cederkall, L. Fraile, S. Franchoo, H.O.U. Fynbo, T. Fritioff, U. Koster, O. Arnd, I. Dillman, O. Hallmann, K.-L. Kratz, B. Pfeiffer, A. Woehr, L. Gaudefroy, O. Sorlin

**Journal of Physics: Conference Series 337 (2012) 012018**  
Nuclear Physics inAstrophysicsV, Eilat (Israel), April 3-8, 2011  
2012-029 A  
<http://hal.in2p3.fr/in2p3-00675626>

**Direct radiative proton capture  $^{23}\text{Al}(p,\gamma)^{24}\text{Si}$  studied via one-proton nuclear breakup of  $^{24}\text{Si}$**

A. Banu, F. Carstoiu, W.N. Catford, B. Fernandez-Dominguez, M. Horoi, N A Orr, B.T Roeder, P. Roussel-Chomaz, L. Trache and R.E. Tribble

**Journal of Physics: Conference Series 337 (2012) 012059**  
Nuclear Physics inAstrophysicsV, Eilat (Israel), April 3-8, 2011  
2012-030 A  
<http://hal.in2p3.fr/in2p3-00675640>

**Approaching r-process nuclei at N=126**

J. Benlliure, H. Alvarez-Pol, T. Kurtukian-Nieto, A.I. Morales, L. Audouin, F. Becker, B. Blank, I. Borzov, E. Casarejos, D. Cortina-Gil, B. Fernandez, J. Giovinazzo, D. Henzlova, B. Jurado, L. Langanke, G. Martinez-Pinedo, P. Napolitani, J. Pereira, F. Rejmund, K.-H. Schmidt, O. Yordanov and the RISING collaboration

**Journal of Physics: Conference Series 337 (2012) 012070**  
Nuclear Physics inAstrophysicsV, Eilat (Israel), April 3-8, 2011  
2012-031 A  
<http://hal.in2p3.fr/in2p3-00675649>

**Discovery of a new isomeric state in  $^{68}\text{Ni}$ : Evidence for a highly deformed proton intruder state**

A. Dijon, E. Clément, G. de France, G. de Angelis, G. Duchêne, J. Dudouet, S. Franchoo, A. Gadea, A. Gottardo, T. Hüyük, B. Jacquot, A. Kusoglu, D. Lebhertz, G. Lehaut, M. Martini, D. R. Napoli, F. Nowacki, S. Péru, A. Poves, F. Recchia, N. Redon, E. Sahin, C. Schmitt, M. Sferrazza, K. Sieja, O. Stezowski, J. J. Valiente-Dobon, A. Vancraeynest, and Y. Zheng

**Physical Review C 85, 031301(R) (2012)**  
2012-038 A  
<http://hal.in2p3.fr/in2p3-00674624>

### **X-Ray Fluorescence from the Element with Atomic Number $Z = 120$**

M. O. Frégeau, D. Jacquet, M. Morjean, E. Bonnet, A. Chbihi, J. D. Frankland, M. F. Rivet, L. Tassan-Got, F. Dechery, A. Drouart, L. Nalpas, X. Ledoux, M. Parlog, C. Ciortea, D. Dumitriu, D. Flueraşu, M. Gugiu, F. Gramegna, V. L. Kravchuk, T. Marchi, D. Fabris, A. Corsi, and S. Barlini

**Physical Review Letters 108 (2012) 122701**

2012-041 A

<http://hal.in2p3.fr/in2p3-00660911>

### **$^{12}\text{C}(\alpha, \gamma)^{28}\text{Si}$ radiative capture: Structural and statistical aspects of the $\gamma$ decay**

D. Lebhertz, S. Courtin, F. Haas, D. G. Jenkins, C. Simenel, M.-D. Salsac, D.A. Hutcheon, C. Beck, J. Cseh, J. Darai, C. Davis, R. G. Glover, A. Goasduff, P.E. Kent, G. Levai, P. L. Marley, A. Michalou, J. E. Pearson, M. Rousseau, N. Rowley, and C. Ruiz

**Physical Review C 85 (2012) 034333**

2012-046 A

<http://hal.in2p3.fr/in2p3-00683631>

### **First $g(2^+)$ measurement on neutron-rich $^{72}\text{Zn}$ , and the high-velocity transient field technique for radioactive heavy-ion beams**

E. Fiori, G. Georgiev, A. E. Stuchbery, A. Jungclauss, D. L. Balabanski, A. Blazhev, S. Cabaret, E. Clément, M. Danchev, J. M. Daugas, S. Grevy, M. Hass, V. Kumar, J. Leske, R. Lozeva, S. Lukyanov, T. J. Mertzimekis, V. Modamio, B. Mougino, F. Nowacki, Yu. E. Penionzhkevich, L. Perrot, N. Pietralla, K. Sieja, K.-H. Speidel, I. Stefan, C. Stodel, J. C. Thomas, J. Walker, and K. O. Zell

**Physical Review C 85, 034334 (2012)**

2012-049 A

<http://hal.in2p3.fr/in2p3-00684457>

### **Indirect study of the $^{12}\text{C}(\alpha, \gamma)^{16}\text{O}$ reaction via the $^{12}\text{C}(^7\text{Li}, t)^{16}\text{O}$ transfer reaction**

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

**Physical Review C 85, 035804 (2012)**

2012-052 A

<http://hal.in2p3.fr/in2p3-00685577>

### **Precise Determination of the Unperturbed $^8\text{B}$ Neutrino Spectrum**

T. Roger, J. Buscher, B. Bastin, O. S. Kirsebom, R. Raabe, M. Alcorta, J. Aysto, M. J. G. Borge, M. Carmona-Gallardo, T. E. Cocolios, J. Cruz, P. Dendooven, L.M. Fraile, H.O.U. Fynbo, D. Galaviz, L. R. Gasques, G. S. Giri, M. Huyse, S. Hyldegaard, K. Jungmann, W. L. Kruithof, M. Lantz, A. Perea, K. Riisager, A. Saastamoinen, B. Santra, P. D. Shidling, M. Sohani, A. J. Sørensen, O. Tengblad, E. Traykov, D.J. van der Hoek, P. Van Duppen, O. O. Versolato, and H.W. Wilschut

**Physical Review Letters 108 (2012) 162502**

2012-059 A

<http://hal.in2p3.fr/in2p3-00690984>

### **New states in $^{18}\text{Na}$ and $^{19}\text{Mg}$ observed in the two-proton decay of $^{19}\text{Mg}$**

I. Mukha, L. Grigorenko, L. Acosta, M. A. G. Alvarez, E. Casarejos, A. Chatillon, D. Cortina-Gil, J. M. Espino, A. Fomichev, J. E. Garcia-Ramos, H. Geissel, J. Gomez-Camacho, J. Hofmann, O. Kiselev, A. Korshennikov, N. Kurz, Yu. A. Litvinov, I. Martel, C. Nociforo, W. Ott, M. Pfützner, C. Rodriguez-Tajes, E. Roeckl, C. Scheidenberger, M. Stanoiu, K. Sümmerer, H. Weick, and P. J. Woods

**Physical Review C 85, 044325 (2012)**

2012-061 A



<http://hal.in2p3.fr/in2p3-00694965>

### **A high intensity $6\text{He}$ beam for the $\beta$ -beam neutrino oscillation facility**

Thierry Stora, Etam Noah, Rastislav Hodak, Tsviki Y. Hirsh, Michael Hass, Vivek Kumar, Kuljeet Singh, Sergey Vaintraub, Pierre Delahaye, Hanna Franberg-Delahaye, Marie-Genevieve Saint-Laurent and Gerard Lhersonneau

**EPL, 98 (2012) 32001**

2012-062 A

<http://hal.in2p3.fr/in2p3-00697265>

### **Spectroscopy of $^{18}\text{Na}$ : Bridging the two-proton radioactivity of $^{19}\text{Mg}$**

M. Assié, F. de Oliveira Santos, T. Davinson, F. de Grancey, L. Achouri, J. Alcantara-Nunez, T. Al Kalanee d, J.-C. AngeLlique d, C. Borcea, R. Borcea, L. Caceres, I. Celikovic, V. Chudobah, D.Y. Pang, C. Ducoin, M. Fallot, O. Kamalou, J. Kiener, Y. Lam, A. Lefebvre-Schuhl, G. Lotay, J. Mrazek n, L. Perrot, A.M. Sanchez-Benitez, F. Rotaru, M.-G. Saint-Laurent, Yu. Sobolev, N. Smirnova, M. Stanoiu, I. Stefan, K. Subotic, P. Ujica, R. Wolski, P.J. Woods

**Physics Letters B 721 (2012) 198-202**

2012—063 A

<http://hal.in2p3.fr/in2p3-00630178/fr/>

### **Study of the surrogate-reaction method applied to neutron-induced capture cross sections**

G. Boutoux, B. Jurado, V. Méot, O. Roig, L. Mathieu, M. Aiche,b, G. Barreau, N. Capellan, I. Companis, S. Czajkowski, K.-H. Schmidt, J.T. Burke, A. Bail, J.M. Daugas, T. Faul, P. Morel, N. Pillet, C. Théroine, X. Derkx, O. Sérot f, I. Matea, L. Tassan-Got

**Physics Letters B 712 (2012) 319-325**

2012-064 A

<http://hal.in2p3.fr/in2p3-00701449>

### **Resonances in $^{19}\text{Ne}$ with relevance to the astrophysically important $^{18}\text{F}(p,\alpha)^{15}\text{O}$ reaction**

D. Mountford, A.St J. Murphy, T. Davinson, P.J. Woods, N.L. Achouri, C. Angulo, J.R. Brown, A.M. Laird, F. de Oliveira Santos, O. Kamalou, P. Ujic, N. de Séreville, P. Descouvemont, S.T. Pittman

**Proceedings of Science (ENAS 6) 050 (2012)**

2012-066 A

<http://hal.in2p3.fr/in2p3-00702716>

### **High-precision branching-ratio measurement for the superallowed $\beta^+$ emitter $^{26}\text{Alm}$**

P. Finlay, G. C. Ball, J. R. Leslie, C. E. Svensson, C. Andreoiu, R. A. E. Austin, D. Bandyopadhyay, D. S. Cross, G. Demand, M. Djongolov, S. Ettenauer, P. E. Garrett, K. L. Green, G. F. Grinyer, G. Hackman, K. G. Leach, C.J. Pearson, A.A. Phillips, E. T. Rand, C. S. Sumithrarachchi, S. Triambak, and S.J. Williams

**Physical Review C 85, 055501 (2012)**

2012-067 A

<http://hal.in2p3.fr/in2p3-00702722>

### **First direct lifetime measurement of the $2+1$ state in $^{72,74}\text{Zn}$ : New evidence for a shape transition between $N = 40$ and $N = 42$ close to $Z = 28$**

M. Niikura, B. Mougnot, S. Franchoo, I. Matea, I. Stefan, D. Verney, F. Azaiez, M. Assie, P. Bednarczyk, C. Borcea, A. Burger, G. Burgunder, A. Buta, L. Caceres, E. Clément, L. Coquard, G. de Angelis, G. de France, F. de Oliveira Santos, A. Dewald, A. Dijon, Z. Dombradi, E. Fiori, C. Fransen, G. Friessner, L. Gaudefroy, G. Georgiev, S. Grévy, M. Hackstein, M. N. Harakeh, F. Ibrahim, O. Kamalou, M. Kmiecik, R. Lozeva, A. Maj, C. Mihai, O. Moller, S. Myalski, F. Negoita, D. Pantelica, L. Perrot, Th. Pissulla, F. Rotaru, W.

Rother, J.A. Scarpaci, C. Stodel, J. C. Thomas, P. Ujic

**Physical Review C 85, 054321 (2012)**

2012-068 A

<http://hal.in2p3.fr/in2p3-00594994>

**First Measurement of Pure Electron Shakeoff in the  $\beta$  Decay of Trapped  $^6\text{He}^+$  Ions**

C. Couratin, Ph. Velten, X. Flechard, E. Lienard, G. Ban, A. Cassimi, P. Delahaye, D. Durand, D. Hennecart, F. Mauger, A. Mery, O. Naviliat-Cuncic, Z. Patyk, D. Rodriguez, K. Siegien-Iwaniuk, and J-C. Thomas

**Physical Review Letters 108 (2012) 243201**

2012-069 A

<http://hal.in2p3.fr/in2p3-00709325>

**Superalloyed Gamow–Teller decay of the doubly magic nucleus  $^{100}\text{Sn}$**

C.B. Hinke, M. Böhmer, P. Boutachkov, T. Faestermann, H. Geissel, J. Gerl, R. Gernhauser, M. Gorska, A. Gottardo, H. Grawe, J. L. Grebosz, R. Krucken, N. Kurz, Z. Liu, L. Maier, F. Nowacki, S. Pietri, Zs. Podolyak, K. Sieja, K. Steiger, K. Straub, H. Weick, H.-J. Wollersheim, P. J. Woods, N. Al-Dahan, N. Alkhomashi, A. Ataç, A. Blazhev, N. F. Braun, I.T. Celikovic, T. Davinson, I. Dillmann, C. Domingo-Pardo, P. C. Doornenbal, G. de France, G. F. Farrelly, F. Farinon, N. Goel, T. C. Habermann, R. Hoischen, R. Janik, M. Karny, A. Kaskas, I.M. Kojouharov, Th. Kroll, Y. Litvinov, S. Myalski, F. Nebel, S. Nishimura, C. Nociforo, J. Nyberg, A. R. Parikh, A. Prochazka, P. H. Regan, C. Rigollet, H. Schaffner, C. Scheidenberger, S. Schwertel, P.-A. Soderstrom, S. J. Steer, A. Stolz, P. Strme

**Nature 486 (2012) 341-345**

2012-074 A

<http://hal.in2p3.fr/in2p3-00714614>

**Recent results from INDRA**

J.D. Frankland, E. Bonnet, B. Borderie, R. Bougault, A. Chbihi and G. Lehaut (INDRA Collaboration)

**EPJ Web of Conferences 31 (2012) 00002**

IWM2011 – International workshop on Multifragmentation and Related Topics, Caen, France, November 2–5, 2011

2012-075 A

<http://hal.in2p3.fr/in2p3-00636423>

**Nuclear symmetry energy in calcium-calcium collisions (INDRA-VAMOS)**

P.C. Wigg, M. Boisjoli, M. Chartier, A. Chbihi, R. Lemmon, J.D. Frankland, N. Le Neindre, and P. Marini for the INDRA-VAMOS E503 Collaboration

**EPJ Web of Conferences 31 (2012) 00015**

IWM2011 – International workshop on Multifragmentation and Related Topics, Caen, France, November 2–5, 2011

2012-076 A

<http://hal.in2p3.fr/in2p3-00717124>

**Influence of the N/Z degree of freedom on the decay modes of excited nuclear complex formed in Kr+Ca reactions at 5.5 A MeV**

J.-P. Wieleczko

**EPJ Web of Conferences 31 (2012) 00021**

IWM2011 – International workshop on Multifragmentation and Related Topics, Caen, France, November 2–5, 2011

2012-077 A

<http://hal.in2p3.fr/in2p3-00637504>

### **Decay modes of the systems formed in the reactions $78\text{Kr}+40\text{Ca}$ and $86\text{Kr}+48\text{Ca}$**

M. La Commara, S. Pirrone, G. Politi, J.P. Wieleczko, G. Ademard, E. De Filippo, M. Vigilante, F. Amorini, L. Auditore, C. Beck, I. Berceanu, E. Bonnet, B. Borderie, G. Cardella, A. Chbihi, M. Colonna, A. D'Onofrio, J. D. Frankland, E. Geraci, E. Henry, E. La Guidara, G. Lanzalone, P. Loutesse, D. Lebhertz, N. Le Neindre, I. Lombardo, D. Loria, K. Mazurek, A. Pagano, M. Papa, E. Piasecki, F. Porto, M. Quinlannl, F. Rizzo, E. Rosato, P. Russotto, W. U. Schroeder, G. Spadaccini, A. Trifiro, J. Toke, M. Trimarchi and G. Verde

**EPJ Web of Conferences 31 (2012) 00022**

IWM2011 – International workshop on Multifragmentation and Related Topics, Caen, France, November 2–5, 2011

2012-078 A

<http://hal.in2p3.fr/in2p3-00717128>

### **Evolution of isotopic fission-fragment yields with excitation energy**

O. Delaune, M. Caamano, X. Derkx, F. Farget, K.-H. Schmidt, O.B. Tarasov, L. Audouin, A.M. Amthor, C.-O. Bacri, G. Barreau, B. Bastin, D. Bazin, J. Benlliure, B. Blank, L. Caceres, E. Casarejos, B. Fernandez-Domingue, L. Gaudefroy, C. Golabek, S. Grévy, B. Jurado, O. Kamalou, A. Lemasson, S.M. Lukyanov, W. Mittig, D.J. Morrissey, A. Navin, J. Pereira, L. Perrot, M. Rejmund, T. Roger, M.G. Saint-Laurent, H. Savajols, C. Schmitt, B.M. Sherrill, C. Stodel, J. Taieb, J.C. Thomas and A.C.C. Villari

**EPJ Web of Conferences 31 (2012) 00025**

IWM2011 – International workshop on Multifragmentation and Related Topics, Caen, France, November 2–5, 2011

2012-079 A

<http://hal.in2p3.fr/in2p3-00637505>

### **Accessing the nuclear symmetry energy in $\text{Ca}+\text{Ca}$ collisions**

M. Boisjoli, A. Chbihi and P. C. Wigg for the INDRA-VAMOS Collaboration

**EPJ Web of Conferences 31 (2012) 00025**

IWM2011 – International workshop on Multifragmentation and Related Topics, Caen, France, November 2–5, 2011

2012-080 A

<http://hal.in2p3.fr/in2p3-00717133>

### **Correlations between emission timescale of fragments and isospin dynamics in $124\text{Sn}+64\text{Ni}$ and $112\text{Sn}+58\text{Ni}$ reactions at 35A MeV**

E. De Filippo, A. Pagano, P. Russotto, F. Amorini, A. Anzalone, L. Auditore, V. Baran, I. Berceanu, B. Borderie, R. Bougault, M. Bruno, T. Cap, G. Cardella, S. Cavallaro, M. B. Chatterjee, A. Chbihi, M. Colonna, M. D'Agostino, R. Dayras, M. Di Toro, J. Frankland, E. Galichet, W. Gawlikowicz, E. Geraci, A. Grzeszczuk, P. Guazzoni, S. Kowalski, E. La Guidara, G. Lanzalone, G. Lanzano, N. Le Neindre, I. Lombardo, C. Maiolino, M. Papa, E. Piasecki, S. Pirrone, R. Płaneta, G. Politi, A. Pop, F. Porto, M. F. Rivet, F. Rizzo, E. Rosato, K. Schmidt, K. Siwek-Wilczynska, I. Skwira-Chalot, A. Trifiro, M. Trimarchi, G. Verde, M. Vigilante, J.P. Wieleczko, J. Wilczynski, L. Zetta, and W. Zipper

**PHYSICAL REVIEW C 86, 014610 (2012)**

2012-082 A

<http://hal.in2p3.fr/in2p3-00704236>

### **One-proton breakup of $24\text{Si}$ and the $23\text{Al}(p, \gamma)24\text{Si}$ reaction in type I x-ray bursts**

A. Banu, F. Carstoiu, N. L. Achouri, W.N. Catford, M. Chartier, B. Fernandez-Dominguez, M. Horoi, B. Laurent, N.A. Orr, S. Paschalis, N. Patterson, B. Pietras, B.T. Roeder, P. Roussel-Chomaz, J.S. Thomas, L. Trache, and R. E. Tribble

**PHYSICAL REVIEW C 86, 015806 (2012)**

2012-084 A

<http://hal.in2p3.fr/in2p3-00719389>

**New Precision Mass Measurements of Neutron-Rich Calcium and Potassium Isotopes and Three-Nucleon Forces**

A.T. Gallant, J.C. Bale, T. Brunner, U. Chowdhury, S. Ettenauer, A. Lennarz, D. Robertson, V.V. Simon, A. Chaudhuri, J. D. Holt, A.A. Kwiatkowski, E. Mane, J. Menendez, B.E. Schultz, M.C. Simon, C. Andreoiu, P. Delheij, M. R. Pearson, H. Savajols, A. Schwenk, and J. Dilling

**Physical Review Letters 109, 032506 (2012)**

2012-085 A

<http://hal.in2p3.fr/in2p3-00686713>

**Tracking saddle-to-scission dynamics using N/Z in projectile breakup reactions**

S. Hudan, A. B. McIntosh, R. T. de Souza, S. Bianchin, J. Black, A. Chbihi, M. Famiano, M.O. Frégeau, J. Gauthier, D. Mercier, J. Moisan, C. J. Metelko, R. Roy, C. Schwarz, W. Trautmann, and R. Yanez

**PHYSICAL REVIEW C 86, 021603(R) (2012)**

2012-090 A

<http://hal.in2p3.fr/in2p3-00725859>

**Systematic study of p-shell nuclei via single-nucleon knockout reactions**

G.F. Grinyer, D. Bazin, A. Gade, J. A. Tostevin, P. Adrich, M. D. Bowen, B. A. Brown, C. M. Campbell, J. M. Cook, T. Glasmacher, S. McDaniel, A. Obertelli, K. Siwek, J. R. Terry, D. Weisshaar, and R. B. Wiringa

**PHYSICAL REVIEW C 86, 024315 (2012)**

2012-098 A

<http://hal.in2p3.fr/in2p3-00726416>

**Unveiling the Intruder Deformed  $0^+_2$  State in  $^{34}\text{Si}$**

F. Rotaru, F. Negoita, S. Grévy, J. Mrazek, S. Lukyanov, F. Nowacki, A. Poves, O. Sorlin, C. Borcea, R. Borcea, A. Buta, L. Caceres, S. Calinescu, R. Chevrier, Zs. Dombradi, J. M. Daugas, D. Lebhertz, Y. Penionzhkevich, C. Petrone, D. Sohler, M. Stanoiu, and J. C. Thomas

**Physical Review Letters 109, 092503 (2012)**

2012-099 A

<http://hal.in2p3.fr/in2p3-00712670>

**Prolate shape of  $^{140}\text{Ba}$  from a first combined Doppler-shift and Coulomb-excitation measurement at the REX-ISOLDE facility**

C. Bauer, T. Behrens, V. Bildstein, A. Blazhev, B. Bruyneel, J. Butterworth, E. Clément, L. Coquard, J. L. Egido, A. Ekstrom, C. R. Fitzpatrick, C. Fransen, R. Gernhauser, D. Habs, H. Hess, J. Leske, T. Kroll, R. Krucken, R. Lutter, P. Marley, T. Moller, T. Otsuka, N. Patronis, A. Petts, N. Pietralla, T. R. Rodriguez, N. Shimizu, C. Stahl, I. Stefanescu, T. Stora, P. G. Thirolf, D. Voulot, J. van de Walle, N. Warr, F. Wenander, and A. Wiens

**PHYSICAL REVIEW C 86, 034310 (2012)**

2012-103 A

<http://hal.in2p3.fr/in2p3-00730403>

**Neutron production by stopping 55MeV deuterons in carbon and heavy water**

G. Lhersonneau, T. Malkiewicz, P. Jones, S. Ketelhut, and W.H. Trzaska

**Eur. Phys. J. A (2012) 48: 116**

2012-105 A

<http://hal.in2p3.fr/in2p3-00731087>

### **Structure of the N = 50 As, Ge, Ga nuclei**

E. Sahin, G. de Angelis, G. Duchene, T. Faul, A. Gadea, A.F. Lisetskiy, D. Ackermann, A. Algorad, S. Aydin, F. Azaiez, D. Bazzacco, G. Benzoni, M. Bostan, T. Byrski, I. Celikovic, R. Chapman, L. Corradi, S. Courtin, D. Curien, U. Datta Pramanik, F. Didierjean, O. Dorvaux, M.N. Erduran, S. Erturk, E. Farnea, E. Fioretto, G. de France, S. Franchoo, B. Gall, A. Gottardo, B. Guiot, F. Haas, F. Ibrahim, E. Ince, A. Khouaja, A. Kusoglu, G. La Rana, M. Labiche, D. Lebhertz, S. Lenzi, S. Leoni, S. Lunardi, P. Mason, D. Mengoni, C. Michelagnoli, V. Modamio, G. Montagnoli, D. Montanari, R. Moro, B. Mouginot, D.R. Napoli, D. O'Donnell, J.R.B. Oliveira, J. Ollier, R. Orlandi, G. Pollarolo, F. Recchia, J. Robin, M.-D. Salsac, F. Scarlassara, R.P. Singh, R. Silvestri, J.F. Smith, I. Stefan, A.M. Stefanini, K. Subotic, S. Szilner, D. Tonev, D.A. Torres, M. Trotta, P. Ujjc, C. Ur, J.J. Valiente-Dobón, D. Verney, M. Yalcinkaya, P.T. Wady, K.T. Wiedemann, K. Zuber

**Nuclear Physics A 893 (2012) 1–12**

2012-106 A

<http://hal.in2p3.fr/in2p3-00735688>

### **New isospin effects in central heavy-ion collisions at Fermi energies**

F. Gagnon-Moisan, E. Galichet, M.-F. Rivet, B. Borderie, M. Colonna, R. Roy, G. Ademard, M. Boisjoli, E. Bonnet, R. Bougault, A. Chbihi, J.D. Frankland, D. Guinet, P. Lantesse, E. Legouée, N. Le Neindre, L. Manduci, P. Marini, P. Napolitani, M. Pârlog, P. Pawlowski, E. Rosato, M. Vigilante

**PHYSICAL REVIEW C 86, 044617 (2012)**

2012-111 A

<http://hal.in2p3.fr/in2p3-00736381>

### **Performance of a high repetition pulse rate laser system for in-gas-jet laser ionization studies with the Leuven laser ion source @ LISOL**

R. Ferrer, V.T. Sonnenschein, B. Bastin, S. Franchoo, M. Huyse, Yu. Kudryavtsev, T. Kron, N. Lecesne, I.D. Moore, B. Osmond, D. Pauwels, D. Radulov, S. Raeder, L. Rens, M. Reponen, J. Roßnagel, H. Savajols, T. Sonoda, J.C. Thomas, P. Van den Bergh, P. Van Duppen, K. Wendt, S. Zemlyanoy

**NIM B 291 (2012) 29-37**

2012-112 A

<http://hal.in2p3.fr/in2p3-00733796>

### **Missing mass spectroscopy on oxygen isotopes beyond the proton-drip line: mirror symmetry of nuclear shell evolution**

D. Suzuki

Institut de Physique Nucléaire (IPN), IN2P3-CNRS, Université de Paris-Sud, F-91406 Orsay, France

**Eur. Phys. J. A (2012) 48: 130**

2012-113 A

### **Roger et al. Reply:**

2012-114 A

<http://hal.in2p3.fr/in2p3-00770521>

### **Beta Decay Of Exotic $T_z = -1$ And $T_z = -2$ Nuclei**

S.E.A. Orrigo, B. Rubio, Y. Fujita, B. Blank, W. Gelletly, J. Agramunt, A. Algora, P. Ascher, B. Bilgier, L. Cáceres, R.B. Cakirli, H. Fujita, E. Ganioglu, M. Gerbaux, J. Giovinazzo, S. Grévy, O. Kamalou, H.C. Kozler, L. Kucuk, T. Kurtukian-Nieto, F. Molina, L. Popescu, A.M. Rogers, G. Susoy, C. Stodel, T. Suzuki, A. Tamii and J.C. Thomas

**AIP Conference Proceedings 1491 (2012) 81-84**

Nuclear Structure and Dynamics II, Opatija (Croatia) 9-13- July 2012  
2012-115 A  
<http://hal.in2p3.fr/in2p3-00748800>

**12C+16O: Properties of Sub-barrier Resonance  $\gamma$  -decay**

A. Goasduff, S. Courtin,<sup>†</sup> F. Haas,<sup>†</sup> D. Lebhertz, D.G. Jenkins,  
J. Fallis, C. Ruiz, D.A. Hutcheon, P.-A. Amandruz, C. Davis,  
U. Hager, D. Ottewell and G. Ruprecht

**AIP Conference Proceedings 1491 (2012) 391-394**

Nuclear Structure and Dynamics II, Opatija (Croatia) 9-13- July 2012  
2012-117 A  
<http://hal.in2p3.fr/in2p3-00748805>

**Direct Mass Measurements of 19B, 22C, 29F, 31Ne, 34Na and Other Light Exotic Nuclei**

L. Gaudefroy, W. Mittig, N. A. Orr, S. Varet, M. Chartier, P. Roussel-Chomaz, J. P. Ebran, B. Fernandez-Dominguez, G. Frémont, P. Gangnant, A. Gillibert, S. Grévy, J. F. Libin, V. A. Maslov, S. Paschalis, B. Pietras, Yu.-E. Penionzhkevich, C. Spitaels, and A. C. C. Villari  
**Physical Review Letters 109 (2012) 202503**

2012-118 A  
<http://hal.in2p3.fr/in2p3-00752211>

**Spectroscopy of the Unbound States of the Drip-Line Nucleus 24O**

V. Lapoux S. Boissinot, Hideaki Otsu, H. Baba, R. J. Chen,  
A. Matta, E. Pollacco, Y. Blumenfeld, F. Flavigny, S. Franchoo,  
N. Fukuda, P. Gangnant, F. Hammache, Ch. Houarner, N. Inabe,  
D. Kameda, J. F. Libin. Louchart, M. Matsushita, T. Motobayashi,  
L. Nalpal, E. Yu. Nikolskii, M. Nishimura, A. Obertelli, T. Onishi,  
E. Rindel, Ph. Rosier, H. Sakurai, F. Saillant, M. Takechi,  
S. Takeuchi, Y. Togano, K. Yoneda, A. Yoshida and K. Yoshida  
(for RIBF57 Collaboration)

**Progress of Theoretical Physics Supplement No. 196 (2012) 111**

The Yukawa International Seminar 2011 (YKIS2011), "Frontier Issues in Physics of Exotic Nuclei", Kyoto University, from October 11th to 15th, 2011  
2012-119 A  
<http://hal.in2p3.fr/in2p3-00756555>

**Erosion of N = 20 shell in 33Al investigated through the ground-state electric quadrupole moment**

K. Shimada, H. Ueno, G. Neyens, K. Asahi, D.L. Balabanski, J.M. Daugas, M. Depuydt, M. De Rydt, L. Gaudefroy, S. Grévy, Y. Hasama, Y. Ichikawa, D. Kameda, P. Morel, T. Nagatomo, L. Perrot, Ch. Stodel, J.-C. Thomas, Y. Utsuno, W. Vanderheijden, N. Vermeulen, P. Vingerhoets, E. Yagi, K. Yoshida, A. Yoshimi  
**Physics Letters B 714 (2012) 246-250**

2012-123 A  
<http://hal.in2p3.fr/in2p3-00770515>

**Measurement of the 6Li charge state distributions following the 6He+ beta decay**

C. Couratin, G. Ban, A. Chapon, P. Delahaye, D. Durand, X. Fléchar, B. Guillon, A. Leredde, E. Liénard, F. Mauger, A. Méry, O. Naviliat-Cuncic, E. Pierre, G. Quemener, D. Rodríguez, J.C. Thomas, E. Traykov, S. Vaintrau, and Ph. Velten  
**Journal of Physics: Conference Series 388 (2012) 152013**

XXVII International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC 2011), Belfast, Northern Ireland, 27 July – 2 August 2011  
2012-124 A  
<http://hal.in2p3.fr/in2p3-00753591>

### **Well Developed Deformation in 42Si**

S. Takeuchi, M. Matsushita, N. Aoi, P. Doornenbal, K. Li, T. Motobayashi, H. Scheit, D. Steppenbeck, H. Wang, H. Baba, D. Bazin, L. Caceres, H. Crawford, P. Fallon, R. Gernhauser, J. Gibelin, S. Go, S. Grevy, C. Hinke, C. R. Hoffman, R. Hughes, E. Ideguchi, D. Jenkins, N. Kobayashi, Y. Kondo, R. Krucken, T. Le Bleis, J. Lee, G. Lee, A. Matta, S. Michimasa, T. Nakamura, S. Ota, M. Petri, T. Sako, H. Sakurai, S. Shimoura, K. Steiger, K. Takahashi, M. Takechi, Y. Togano, R. Winkler, and K. Yoneda

**Physical Review Letters 109, (2012) 182501**

2012-126 A

<http://hal.in2p3.fr/in2p3-00721241>

### **Cross sections for one-neutron knock-out from 37Ca at intermediate energy**

A. Bürger, F. Azaiez, A. Algora, A. Al-Khatib, B. Bastin, G. Benzoni, R. Borcea, C. Bourgeois, P. Bringel, E. Clément, J.-C. Dalouzy, Z. Dlouhy, Z. Dombradi, A. Drouart, C. Engelhardt, S. Franchoo, Z. Fulop, A. Görngen, S. Grévy, H. Hübel, F. Ibrahim, W. Korten, J. Mrazek, A. Navin, F. Rotaru, P. Roussel Chomaz, M.-G. Saint-Laurent, G. Sletten, D. Sohler, O. Sorlin, M. Stanoiu, I. Stefan, C. Theisen, C. Timis, D. Verney, and S. Williams

**PHYSICAL REVIEW C 86, 064609 (2012)**

2012-130 A

<http://hal.in2p3.fr/in2p3-00769566>

### **$\beta$ -delayed neutron emission studies**

M.B. Gómez-Hornillos, J. Rissanen, J. L. Taín, A. Algora, K.L. Kratz, G. Lhersonneau, B. Pfeiffer, J. Agramunt, D. Cano-Ott, V. Gorlychev, R. Caballero-Folch, T. Martínez, L. Achouri, F. Calvino, G. Cortés, T. Eronen, A. García, M. Parlog, Z. Podolyak, C. Pretel, E. Valencia · IGISOL Collaboration

**Hyperfine Interactions (2012) Online First**

2012-132 A

<http://hal.in2p3.fr/in2p3-00762387>

### **Measurements of nuclide yields in neutron-induced fission of natural uranium for SPIRAL2**

G. Lhersonneau, T. Malkiewicz, W. H. Trzaska

**Hyperfine Interactions (2012) Online First**

2012-133 A

<http://hal.in2p3.fr/in2p3-00769610>

### **Decay spectroscopy of neutron-rich nuclei with A $\approx$ 100**

G. Lhersonneau, B. Pfeiffer, K.-L. Kratz

**Hyperfine Interactions (2012) Online First**

2012-134 A

<http://hal.in2p3.fr/in2p3-00769613>

### **New excited states in the halo nucleus 6He**

X. Mougeot, V. Lapoux, W. Mittig, N. Alamanos, F. Auger, B. Avez, D. Beaumel, Y. Blumenfeld, R. Dayras, A. Drouart, C. Force, L. Gaudefroy, A. Gillibert, J. Guillot, H. Iwasaki, T. Al Kalanee, N. Keeley, L. Nalpas, E.C. Pollacco, T. Roger, P. Roussel-Chomaz, D. Suzuki, K.W. Kemper, T.J. Mertzimekis, A. Pakou, K. Rusek, J.-A. Scarpaci, C. Simenel, I. Strojek, R. Wolski

**Physics Letters B 718 (2012) 441–446**

2012-135 A

<http://hal.in2p3.fr/in2p3-00756596>

**Direct and  $\beta$ -delayed multi-proton emission from atomic nuclei with a time projection chamber: the cases of  $^{43}\text{Cr}$ ,  $^{45}\text{Fe}$ , and  $^{51}\text{Ni}$**

L. Audirac, P. Ascher,, B. Blank,c, C. Borcea, B.A. Brown, G. Canchel, C.E. Demonchy, F. de Oliveira Santos, C. Dossat, J. Giovinazzo, S. Grévy,d, L. Hay, J. Huikari, S. Leblanc, I. Matea, J.-L. Pedroza, L. Perrot, J. Pibernat, L. Serani, C. Stodel, and J.-C. Thomas  
**Eur. Phys. J. A (2012) 48: 179**

2012-142 A

<http://hal.in2p3.fr/in2p3-00776279>

**Publisher's Note: In-beam spectroscopic studies of the  $^{44}\text{S}$  nucleus [Phys. Rev. C 85, 024311 (2012)]**

L. Caceres, D. Sohler, S. Grévy, O. Sorlin, Zs. Dombradi, B. Bastin, N.L. Achouri, J.C. Angélique, F. Azaiez, D. Baiborodin, R. Borcea, C. Bourgeois, A. Buta, A. Bürger, R. Chapman, J.C. Dalouzy, Z. Dlouhy, A. Drouard, Z. Elekes, S. Franchoo, L. Gaudefroy, S. Iacob, B. Laurent, M. Lazar, X. Liang, E. Liénard, J. Mrazek, L. Nalpas, F. Negoita, F. Nowacki, N.A. Orr, Y. Penionzhkevich, Zs. Podolyak, F. Pougheon, A. Poves, P. Roussel-Chomaz, M. G. Saint-Laurent, M. Stanoiu, I. Stefan

**Physical Review C 85 (2012) 039901 (E)**

2012-148 A

<http://hal.in2p3.fr/in2p3-00846623>

**Transient effects in proton-induced fission of  $^{208}\text{Pb}$**

Y. Ayyad, J. Benlliure, A. Kelic-Heil, K.-H. Schmidt, E. Casarejos, A. Bacquias, A. Boudard, T. Enqvist, M.V. Ricciardi, M. Fernandez, V. Henzl, V. Henzlova, B. Jurado, T. Kurtukian, S. Lukic, P. Nadochy, D. Pérez-Loureiro, F. Rejmund, M.V. Ricciardi, C. Schmitt, Son Nguyen Ngoc

**Proc. of the 13th Int. Conf. On Nuclear Reaction Mechanisms (2012) 227**

The 13th International Conference on Nuclear Reaction Mechanisms, Varenna : Italie (2012)

2012-149 A

<http://hal.in2p3.fr/in2p3-00855174>

**Evolution of isotopic fission-fragment yields with bombarding energy**

O. Delaune, M. Caamaño, F. Farget, O.B. Tarasov, X. Derkx, K.-H. Schmidt, L. Audouin, A.M. Amthor<sup>1</sup>, C.-O. Bacri, G. Barreau, B. Bastin, D. Bazin, J. Benlliure, B. Blank, L. Cacères, E. Casarejos, B. Fernández-Domínguez, L. Gaudefroy, C. Golabek, S. Grévy<sup>1</sup>, B. Jurado, O. Kamalou, A. Lemasson, S.M. Lukyanov, W. Mittig, D.J. Morrissey, A. Navin, J. Pereira, L. Perrot, M. Rejmund, T. Roger, M.G. Saint-Laurent, H. Savajols, C. Schmitt, B.M. Sherrill, C. Stodel, J. Taieb, J.C. Thomas, A.C.C. Villari

**Proc. of the 13th Int. Conf. On Nuclear Reaction Mechanisms (2012) 235**

The 13th International Conference on Nuclear Reaction Mechanisms, Varenna : Italie (2012)

2012-150 A

<http://hal.in2p3.fr/in2p3-00855189>

**The Fazia initiative: more powerful detectors for a more detailed investigation on the origin and the decay of charged fragments**

G. Casini, S. Barlini, G. Pasquali, S. Carboni, N. Le Neindre, M. Bini, B. Borderie, R. Bougault, P. Edelbruck, M. Merciai, A. Olmi, M.F. Rivet, A.A. Stefanini, E. Scarlini, G. Baiocco, R. Berjillos, E. Bonnet, M. Bruno, A. Chbihi, J.A. Dueñas, F. Gramegna, A. Kordyasz, T. Kozik, V.L. Kravchuk, O. Lopez, T. Marchi, L. Morelli, M. Parlog, S. Piantelli, E. Rosato, E. Vient, M. Vigilante

**Proc. of the 13th Int. Conf. On Nuclear Reaction Mechanisms (2012) 407**

The 13th International Conference on Nuclear Reaction Mechanisms, Varenna : Italie (2012)

2012-151 A

<http://hal.in2p3.fr/in2p3-00855210>



**Effects of irradiation of energetic heavy ions on digital pulse shape analysis with silicon detectors**

S. Barlini, S. Carboni, N. Le Neindre, M. Bini, B. Borderie, R. Bougault, G. Casini, P. Edelbruck, A. Olmi, G. Pasquali, G. Poggi, M.F. Rivet, A.A. Stefanini, E. Scarlini, A. Atelani, G. Baiocco, R. Berjillos, E. Bonnet, M. Bruno, A. Chbihi, J.A. Dueñas, F. Gramegna, A. Kordyasz, T. Kozik, V.L. Kravchuk, O. Lopez, T. Marchi, L. Morelli, M. Parlog, S. Piantelli, E. Rosato, E. Vient, M. Vigilante

**Proc. of the 13th Int. Conf. On Nuclear Reaction Mechanisms (2012) 415-420**

The 13th International Conference on Nuclear Reaction Mechanisms, Varenna : Italie (2012)

2012-152 A

<http://hal.in2p3.fr/in2p3-00855243>

**95MeV/u <sup>12</sup>C nuclear fragmentation measurements on thin targets for hadrontherapy**

J. Colin, D. Cussol, J. Dudouet, J.M. Fontbonne, M. Labalme, P. Henriquet, J. Krimmer, C. Finck, D. Juliani, M. Rousseau, B. Braunn, M.G. Saint-Laurent

**Proc. of the 13th Int. Conf. On Nuclear Reaction Mechanisms (2012) 459-460**

The 13th International Conference on Nuclear Reaction Mechanisms, Varenna : Italie (2012)

2012-153 A

<http://hal.in2p3.fr/in2p3-00855256>

# THEORIE

## **Spatial particle correlations in light nuclei. I two-particle systems**

P. Mei, P. Van Isacker

**Annals of Physics 327 (2012) 1162–1181**

2012-014 T

<http://hal.in2p3.fr/in2p3-00656025>

## **Spatial particle correlations in light nuclei. II four-particle systems**

P. Mei, P. Van Isacker

**Annals of Physics 327 (2012) 1182–1201**

2012-015 T

<http://hal.in2p3.fr/in2p3-00656026>

## **Nuclear structure study around $Z = 28$**

P.C. Srivastava, I. Mehrotra

**International Journal of Modern Physics E Vol. 21, No. 1 (2012) 1250007**

2012-040 T

<http://hal.in2p3.fr/in2p3-00678898>

## **Pair-transfer probability in open- and closed-shell Sn isotopes**

M. Grasso, D. Lacroix, and A. Vitturi

**Physical Review C 85, 034317 (2012)**

2012-042 T

<http://hal.in2p3.fr/in2p3-00670259>

## **Pairing dynamics in particle transport**

G. Scamps, D. Lacroix, G.F. Bertsch, K. Washiyama

**Physical Review C 85, 034328 (2012)**

2012-044 T

<http://hal.in2p3.fr/in2p3-00669833>

## **Consistent description of nuclear charge radii and electric monopole transitions**

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

**Physical Review C 85, 034331 (2012)**

2012-050 T

<http://hal.in2p3.fr/in2p3-00680810>

## **Symmetry breaking and fluctuations within stochastic mean-field dynamics:**

### **Importance of initial quantum fluctuations**

D. Lacroix, S. Ayik, B. Yilmaz

**Physical Review C 85, 041602(R) (2012)**

2012-057 T

<http://hal.in2p3.fr/in2p3-00679661>

## **Nuclear structure study with core excitations in Ni region: for fp $g_{9/2}$ space**

P. C. Srivastava

**Modern Physics Letters A 27 (2012) 1250061**

2012-058 T

<http://hal.in2p3.fr/in2p3-00690636>

## **Thermodynamical properties of small superconductors with a fixed number of particles**

D. Gambacurta, D. Lacroix

**Physical Review C 85, 044321 (2012)**

2012-060 T

<http://hal.in2p3.fr/in2p3-00669352>

**Asymptotic normalization coefficients and continuum coupling in mirror nuclei**

J. Okołowicz, N. Michel, W. Nazarewicz, and M. Płoszajczak

**Physical Review C 85, 064320 (2012)**

2012-070 T

<http://hal.in2p3.fr/in2p3-00680716>

**Projected quasiparticle perturbation theory**

Denis Lacroix and Danilo Gambacurta

**PHYSICAL REVIEW C 86, 014306 (2012)**

2012-089 T

<http://hal.in2p3.fr/in2p3-00701279>

**Number-conserving approach to the pairing problem: Application to Kr and Sn isotopic chains**

Guillaume Hupin and Denis Lacroix

**PHYSICAL REVIEW C 86, 024309 (2012)**

2012-091 T

<http://hal.in2p3.fr/in2p3-00725861>

**Second random-phase approximation with the Gogny force: First applications**

D. Gambacurta, M. Grasso, V. De Donno, G. Co', and F. Catara

**PHYSICAL REVIEW C 86, 021304(R) (2012)**

2012-100 T

<http://hal.in2p3.fr/in2p3-00724380>

**Aligned neutron-proton pairs in  $N \sim Z$  nuclei**

P Van Isacker

**Physica Scripta T150 (2012) 014042 (3pp)**

NCNP 2011: Nordic Conference on Nuclear Physics 2011 (Stockholm, Sweden, 13–17 June 2011)

2012-107 T

<http://hal.in2p3.fr/in2p3-00714947>

**Low-Lying Dipole Response in the Stable  $^{40,48}\text{Ca}$  Nuclei Within the Second Random-Phase Approximation**

D. Gambacurta, M. Grasso and F. Catara

**AIP Conference Proceedings 1491 (2012) 186-189**

Nuclear Structure and Dynamics II, Opatija (Croatia) 9-13- July 2012

2012-116 T

<http://hal.in2p3.fr/in2p3-00748803>

**Simplified Modeling of Cluster-Shell Competition and Appearance of Various Cluster Structures in Light Nuclei**

N. Itagaki, K. Muta, H. Masui, M. Płoszajczak and J. Cseh

**Progress of Theoretical Physics Supplement No. 196 (2012) 192**

The Yukawa International Seminar 2011 (YKIS2011), "Frontier Issues in Physics of Exotic Nuclei", Kyoto University, from October 11th to 15th, 2011

2012-120 T

<http://hal.in2p3.fr/in2p3-00756590>

**On the Origin of Nuclear Clustering**

J. Okołowicz, M. Płoszajczak, and W. Nazarewicz

**Progress of Theoretical Physics Supplement No. 196 (2012) 230**

The Yukawa International Seminar 2011 (YKIS2011), "Frontier Issues in Physics of Exotic Nuclei", Kyoto University, from October 11th to 15th, 2011

2012-121 T

<http://hal.in2p3.fr/in2p3-00675422>

**On the Application of Symmetry Breaking and Its Restoration to Treat Pairing Correlation in Finite Nuclei**

G. Hupin, and D. Lacroix

**Progress of Theoretical Physics Supplement No. 196 (2012) 250**

The Yukawa International Seminar 2011 (YKIS2011), "Frontier Issues in Physics of Exotic Nuclei", Kyoto University, from October 11th to 15th, 2011

2012-122 T

<http://hal.in2p3.fr/in2p3-00680726>

**Nuclear charge radii and electric monopole transitions in the interacting Boson Model**

P. Van Isacker

**AIP Conference Proceedings 1488 (2012) 45-52**

International Conference on Beauty in Physics: Theory and Experiment, Mexico (Mexico), 14-18 May 2012

2012-127 T

<http://hal.in2p3.fr/in2p3-00718150>

**Description of two-particle transfer in superfluid systems**

Danilo Gambacurta and Denis Lacroix

**PHYSICAL REVIEW C 86, 064320 (2012)**

2012-129 T

<http://hal.in2p3.fr/in2p3-00748182>

**Probing the pairing interaction through two-neutron transfer reactions**

M. Grasso, D. Beaumel, E. Khan, D. Lacroix, J. Margueron, and A. Vitturi

**EPJ Web of Conferences 38 (2012) 04001**

2012-138 T

6th International Conference on Nuclear Structure and Related Topics (NSRT), Dubna, Russia, 3rd to the 7th of July 2012

<http://hal.in2p3.fr/in2p3-00771796>

**Pairing and thermodynamics properties of finite-systems with fixed number of particles**

D. Gambacurta and D. Lacroix

**EPJ Web of Conferences 38 (2012) 04004**

2012-139 T

6th International Conference on Nuclear Structure and Related Topics (NSRT), Dubna, Russia, 3rd to the 7th of July 2012

<http://hal.in2p3.fr/in2p3-00771850>

**Large amplitude motion with a stochastic mean-field approach**

Denis Lacroix, Sakir Ayik, Bulent Yilmaz, and Kouhei Washiyama

**EPJ Web of Conferences 38 (2012) 04006**

2012-140 T

6th International Conference on Nuclear Structure and Related Topics (NSRT), Dubna, Russia, 3rd to the 7th of July 2012

<http://hal.in2p3.fr/in2p3-00740363>

## **Weakly bound systems, continuum effects, and reactions**

Y Jaganathen, N Michel and M. Ploszajczak

**Journal of Physics: Conference Series 403 (2012) 012022**

International Conference "Horizons of Innovative Theories, Experiments and Supercomputing in Nuclear Physics", New Orleans : États-Unis (2012)

2012-143 T

<http://hal.in2p3.fr/in2p3-00740123>

## **INSTRUMENTATION ET ACCELERATEURS**

### **Particle identification using the (DELTA)E-E technique and pulse shape discrimination with the silicon detectors of the FAZIA project**

S. Carboni, S.Barlini, L.Bardelli, N.LeNeindre, M.Bini, B.Borderie, R.Bougault , G. Casini , P.Edelbruck, A.Olmi, G.Pasquali, G.Poggi , M.F.Rivet, A.A.Stefanini, G. Baiocco, R.Berjillos, E.Bonnet, M.Bruno, A.Chbihi, I.Cruceru, M.Degerlier, J.A.Duenas, E. Galichet, F.Gramegna, A.Kordyasz, T.Kozik, V.L.Kravchuk, O.Lopez , T.Marchi, I.Martel, L. Morelli, M.Parlog, H.Petrascu, E.Rosato, V.Seredov, E.Vient, M.Vigilante, R.Alba, D. Santonocito, C.Maiolino

**NIM A 664 (2012) 251-263**

2012-003 I

<http://hal.in2p3.fr/in2p3-00656422/fr/>

### **AGATA—Advanced GAMMATrackingArray**

S. Akkoyun et al.

**NIM A 668 (2012) 26-58**

2012-006 I

<http://hal.in2p3.fr/in2p3-00646795/fr/>

### **Electrostatic mask for active targets**

J. Pancin, J. Gibelin, M. Goth, P. Gangnant, J.-F. Libin, R. Raabe, T. Roger, and P. Roussel-Chomaz

**Journal of Instrumentation 7 (2012) P01006**

2012-007 I

<http://hal.in2p3.fr/in2p3-00658557/fr/>

### **Monte Carlo simulation of a single detector unit for the neutron detector array NEDA**

G. Jaworski, M. Palacz, J. Nyberg, G.de Angelis, G.de France, A. Di Nitto, J.Egea, M.N. Erduran, S. Erturk, E. Farnea, A. Gadea , V. Gonzalez, A. Gottardo, T. Huyuk, J. Kownacki, A. Pipidis, B. Roeder, P.-A. Soderstrom, E. Sanchis, R.Tarnowski, A.Triossi, R. Wadsworth, J.J. Valiente Dobon

**NIM A 673 (2012) 64–72**

2012-016 I

<http://hal.in2p3.fr/in2p3-00669836>

### **Multigan: First experimental results**

L. Maunoury, J. Y. Pacquet, P. Baret, X. Donzel, M. Dubois, G. Gaubert, P. Lehérissier, R. Leroy, M. Michel, and A. C. C. Villari

**Review of Scientific Instruments 83, 02A338 (2012)**

14th International Conférence on Ion Sources, 12th-16th september 2011, Giardini Naxos (Italy)

2012-032 I

<http://hal.in2p3.fr/in2p3-00675868>

### **Roadmap for the design of a superconducting electron cyclotron resonance ion source for Spiral2**

T. Thuillier, J. Angot, C. Barué, C. Canet, T. Lamy, P. Leherissier, F. Lemagnen, L. Maunoury, and C. Peaucelle

**Review of Scientific Instruments 83, 02A339 (2012)**

14th International Conference on Ion Sources, 12th-16th september 2011, Giardini Naxos (Italy)

2012-033 I

<http://hal.in2p3.fr/in2p3-00623258>

**Prospects for advanced electron cyclotron resonance and electron beam ion source charge breeding methods for EURISOL**

P. Delahaye, A. Galata, J. Angot, G. Ban, L. Celona, J. Choinski, P. Gmaj, A. Jakubowski, P. Jardin, T. Kalvas, H. Koivisto, V. Kolhinen, T. Lamy, D. Lunney, L. Maunoury, A. M. Porcellato, G. F. Prete, O. Steckiewicz, P. Sortais, T. Thuillier, O. Tarvainen, E. Traykov, F. Varenne, and F. Wenander

**Review of Scientific Instruments 83, 02A906 (2012)**

14th International Conference on Ion Sources, 12th-16th september 2011, Giardini Naxos (Italy)

2012-034 I

<http://hal.in2p3.fr/in2p3-006221656>

**Status of the SPIRAL I upgrade at GANIL**

P. Jardin, O. Bajeat, C. Couratin, P. Delahaye, M. Dubois, C. Feierstein, F. Pellemoine, P. Lecomte, P. Leherissier, L. Maunoury, M. G. Saint-Laurent, and E. Traykov

**Review of Scientific Instruments 83, 02A911 (2012)**

14th International Conference on Ion Sources, 12th-16th september 2011, Giardini Naxos (Italy)

2012-035 I

<http://hal.in2p3.fr/in2p3-00622165>

**Status of the ion sources developments for the Spiral2 project at GANIL**

P. Leherissier, O. Bajeat, C. Barué, C. Canet, M. Dubois, M. Dupuis, J.L. Flambard, R. Frigot, P. Jardin, C. Leboucher, F. Lemagnen, L. Maunoury, B. Osmond, J. Y. Pacquet, A. Pichard, T. Thuillier, and C. Peaucelle

**Review of Scientific Instruments 83, 02A915 (2012)**

14th International Conference on Ion Sources, 12th-16th september 2011, Giardini Naxos (Italy)

2012-036 I

<http://hal.in2p3.fr/in2p3-00622149>

**Laser ion sources for radioactive beams (invited)**

N. Lecesne

**Review of Scientific Instruments 83, 02A916 (2012)**

14th International Conference on Ion Sources, 12th-16th september 2011, Giardini Naxos (Italy)

2012-037 I

<http://hal.in2p3.fr/in2p3-00622148>

**Micromegas detector developments for MIMAC**

E. Ferrer-Ribas, D. Attié, D. Calvet, P. Colas, F. Druillolle, Y. Giomataris, F.J. Iguaza, J.P. Mols, J. Pancin, T. Papaevangelou, J. Billard, G. Bosson, J.L. Bouly, O. Bourrion, Ch. Fourel, C. Grignon, O. Guillaudin, F. Mayet, J.P. Richer, D. Santos, C. Golabek and L. Lebreton

**EAS Publications Series 53 (2012) 165-171**

CYGNUS 2011: Third International Conference on Directional Detection of Dark Matter, CYGNUS, Aussois, France, 7-10 juin 2011

2012-051 I

<http://hal.in2p3.fr/in2p3-00622259>

### **Micromegas at low pressure for beam tracking**

J. Pancin, B. Fernandez, S. Damoy, M. Kebbiri, T. Papaevangelou and M. Riallot

**Journal of Instrumentation 7 (2012) C03017**

2nd International Conférence on Micro Pattern Gasous detectors, 29 august – 1 september 2011, Kobe, Japan

2012-055 I

<http://hal.in2p3.fr/in2p3-00688577>

### **Machine protection system for the SPIRAL2 facility**

M-H. Moscatello, C. Berthe, C. Jamet, G. Normand

**Proceedings of IPAC2012 (2012) 2612-2614**

The third International Particle Accelerator Conference, IPAC'12, New Orleans, Louisiana, USA, May 20-25, 2012

2012-087 I

<http://hal.in2p3.fr/in2p3-00704389>

### **Measurements of the first rf prototype of the SPIRAL2 single bunch selector**

M. Di Giacomo, A. Caruso, G. Gallo, E. Zappalà, D. Rifuggiato, A. Longhitano, F. Consoli

**Proceedings of IPAC2012 (2012) 2663-2665**

The third International Particle Accelerator Conference, IPAC'12, New Orleans, Louisiana, USA, May 20-25, 2012

2012-088 I

<http://hal.in2p3.fr/in2p3-00704390>

### **Charge breeding of light metallic ions:Prospects for SPIRAL**

P. Delahaye, L.Maunoury, R.Vondrasek

**NIM A 693 (2012) 104-108**

2012-092 C

<http://hal.in2p3.fr/in2p3-00725868>

### **GET: A Generic Electronic System for TPCs for nuclear physics experiments**

Emanuel Pollacco, Shebli Anvar, H. Baba, Pascal Baron, Daniel Bazin, Chiheb Belkhiria, Bertram Blank, Joël Chavas, Patricia Chomaz, Eric Delagnes, Frederic Druillolle, Patrick Hellmuth, Cedric Huss, Eugene Galyaev, Bill Lynch, Wolfgang Mittig, Tetsuya Murakami, Laurent Nalpas, Jean-Louis Pedroza, Riccardo Raabe, Jérôme Pibernat, Bruno Raine, Abdel Rebi, Atsushi Taketani, Frederic Saillant, Daisuke Suzuki, Nathan Usher, Gilles Wittwer

**Physics Procedia 37 (2012) 1799 – 1804**

TIPP 2011 - Technology and Instrumentation for Particle Physics 2011, Chicago (USA), 9-14 june 2011

2012-108 I

<http://hal.in2p3.fr/in2p3-00738205>

### **Neutron recognition in the LAND detector for large neutron multiplicity**

P. Pawlowski, J. Brzychczyk, Y. Leifels, W. Trautmann, P. Adrich, T. Aumann, C.O. Bacri, T. Barczyk, R. Bassini, S. Bianchin, C. Boiano, K. Boretzky, A. Boudard, A. Chbihi, J. Cibor, B. Czech, M. De Napoli, J.-E. Ducret, H. Emling, J.D. Frankland, T. Gorbinet, M. Hellstromc, D. Henzlova , S. Hlavac, J. Imm\_e h, I. Iori e,y,, H. Johanssonm,c, K. Kezzar c, S. Kupny, A. Lafriakh, A. Le Fevre c, E. Le Gentil f, S. Leray , J. Łukasik, J. Luhning, W.G. Lynch, U. Lynen, Z. Majka, M. Mocko, W.F.J. Muller, A. Mykulyak, H. Orth, A.N. Otte

, R. Palit, S. Panebianco, A. Pullia, G. Raciti, E. Rapisarda, D. Rossi, M.-D. Salsac, H. Sann, C. Schwarz, H. Simon, C. Sfienti, K. Summerer, M.B. Tsang, G. Verde, M. Veselsky, C. Volant, M. Wallace, H. Weick, J. Wiechul, A. Wieloch, B. Zwieglinski

**NIM A 694 (2012) 47-54**

2012-109 I

<http://hal.in2p3.fr/in2p3-00682825>

**Improved charge breeding efficiency of light ions with an electron cyclotron resonance ion source**

R. Vondrasek, P. Delahaye, Sergey Kutsaev, and L. Maunoury

**Review of Scientific Instruments 83, 113303 (2012)**

2012-136 C

<http://hal.in2p3.fr/in2p3-00770823>

**GANIL operation status and upgrade of SPIRAL1**

F. Chautard, O. Bajeat, P. Delahaye, M. Dubois, P. Jardin, O. Kamalou, L. Maunoury, G. Sénécal

**Proceedings of HIAT 2012 (2012) 51-53**

12th Int. Conference on Heavy Ion Accelerator Technology, June 18-21 2012, Chicago (USA)

2012-137 C

<http://hal.in2p3.fr/in2p3-00770849>

**A single-chip telescope for heavy-ion identification**

G. Pasquali, S. Barlini, L. Bardelli, S. Carboni, N. Le Neindre, M. Bini, B. Borderie, R. Bougault, G. Casini, P. Edelbruck, A. Olmi, G. Poggi, M.F. Rivet, A.A. Stefanini, G. Baiocco, R. Berjillos, E. Bonnet, M. Bruno, A. Chbihi, I. Crucecu, M. Degerlier, J.A. Duenas, M. Falorsi, E. Galichet, F. Gramegna, A. Kordyasz, T. Kozik, V.L. Kravchuk, O. Lopez, T. Marchi, I. Martel, L. Morelli, M. Parlog, H. Petruscu, S. Piantelli, E. Rosato, V. Seredov, E. Vient, and M. Vigilante

For the FAZIA Collaboration

**Eur. Phys. J. A 48 (2012) 158**

2012-140 I

<http://hal.in2p3.fr/in2p3-00772111>



**Design and Test of a High-speed Flash ADC Mezzanine Card for High-resolution and Timing Performance in Nuclear Structure Experiments**

X. Egea, E. Sanchis, V. González, A. Gadea, J.M. Blasco, D. Barrientos, J.J. Valiente Dobón, M. Tripon, A. Boujrad, C. Houarner, M. Jastrzab, M. Blaizot, P. Bourgault, G.de Angelis, M.N. Erduran, S. Ertürk, G.de France, T. Hüyük, G. Jaworski, A. di Nitto, J. Nyberg, M. Palacz, A. Pipidis, R. Tarnowski, A. Triossi, R. Wadsworth  
**Proceedings of the 18th IEEE-NPSS Real Time Conference, Berkeley (USA) 9-15 june 2012**

2012-144 I

<http://hal.in2p3.fr/in2p3-00797432>

**Mapping the amplitude and position response of double sided silicon strip detectors with monochromatic single proton**

F. Amorini, A. Anzalone, L. Auditore, C. Boiano, G. Cardella, L. Carraresi, A. Castoldi, A. Chbihi1, E. De Filippo, L. Francalanza, E. Geraci, S. Giani, C. Guazzoni, E. La Guidara, G. Lanzalone, I. Lombardo, S. Lo Nigro, D. Loria, C. Maiolino, I. Martel, T. Minniti, G.V. Montemurro, A. Pagano, E.V. Pagano, M. Papa, T. Parsani, S. Pirrone, G. Politi, F. Porto, F. Riccio, F. Rizzo, P. Russotto, A.M. Sanchez-Benitez, J.A. Duenas, R. Berjillos, S. Santoro, F. Taccetti, A. Trifiro, M. Trimachi, G. Verde, M. Vigilante, P. Zambon  
**IEEE Nuclear Science Symposium Conference, art n° 6551331, 1358-1364 (2013)**

2012 IEEE Nuclear Science Symposium and Medical Imaging Conference Record (NSS/MIC), Anaheim (USA), 29/10-3/11/2012

2012-154 I

<http://hal.in2p3.fr/in2p3-00855410>

**Recent results of PHOENIX V2 and new prospects with PHOENIX V3**

T. Thuillier, J. Angot, T. Lamy, M. Marie-Jeanne, C. Peaucelle, C. Barue, C. Canet, M. Dupuis, P. Leherissier, F. Lemagnen, L. Maunoury, B. Osmond, P. Spädtke

**Proceedings of ECRIS2012 (2012) 117-120**

20th International Workshop on ECR Ion Sources, Sydney (Australie) 24 sept-28 sept 2012

2012-155 C

<http://hal.in2p3.fr/in2p3-00847236>

**Performance of ANL ECR breeder with low mass beams**

R. Vondrasek, S. Kutsaev, R. Pardo, R. Scott, P. Delahaye, and L. Maunoury

**Proceedings of ECRIS2012 (2012) 177-181**

20th International Workshop on ECR Ion Sources, Sydney (Australie) 24 sept-28 sept 2012

2012-156 C

<http://hal.in2p3.fr/in2p3-00958211>

**ECRISs at GANIL today and tomorrow**

P. Jardin, O. Bajeat, C. Barué, C. Canet, P. Delahaye, M. Dubois, M. Dupuis, J.L. Flambard, R. Frigot, C. Leboucher, P. Leherissier, F. Lemagnen, L. Maunoury, B. Osmond, J. Piot, E. Traykov, C. Peaucelle, T. Thuillier, O. Tuske, B. Gall, J. Rubert

**Proceedings of ECRIS2012 (2012) 195-199**

20th International Workshop on ECR Ion Sources, Sydney (Australie) 24 sept-28 sept 2012

2012-157 C

<http://hal.in2p3.fr/in2p3-00737301>

**Track formation in two amorphous insulators, vitreous silica and diamond like carbon: Experimental observations and description by the inelastic thermal spike model**

C. Rotaru, F. Pawlak, N. Khalfaoui, C. Dufour, J. Perrière, A. Laurent, J.P. Stoquert, H. Lebius, M. Toulemonde

**NIM B 272 (2012) 9-14**

2012-004 N

<http://dx.doi.org/10.1016/j.nimb.2011.01.022>

**Effect of composition on the behavior of pyrochlores irradiated with swift heavy ions**

G. Sattonnay, S. Moll, L. Thomé, C. Legros, A. Calvo, M. Herbst-Ghysel, C. Decorse, I. Monnet

**NIM B 272 (2012) 261-265**

2012-005 N

<http://dx.doi.org/10.1016/j.nimb.2011.01.079>

**Formation of nanosized hills on Ti<sub>3</sub>SiC<sub>2</sub> oxide layer irradiated with swift heavy ions**

J.C. Nappé, I. Monnet, F. Audubert, Ph. Grosseau, M. Beauvy, M. Benabdesselam

**NIM B 270 (2012) 36**

2012-001 N

<http://dx.doi.org/10.1016/j.nimb.2011.09.027>

**Phenomenological model for the formation of heterogeneous tracks in pyrochlores irradiated with swift heavy ions**

G. Sattonnay, C. Grygiel, I. Monnet, C. Legros, M. Herbst-Ghysel, L. Thomé

**Acta Materialia 60 (2012) 22–34**

2012-002 N

<http://dx.doi.org/10.1016/j.actamat.2011.09.017>

**Dense and nanometric electronic excitations induced by swift heavy ions in an ionic CaF<sub>2</sub> crystal: Evidence for two thresholds of damage creation**

M. Toulemonde, A. Benyagoub, C. Trautmann, N. Khalfaoui, M. Boccanfuso, C. Dufour, F. Gourbilleau, J. J. Grob, J. P. Stoquert, J. M. Costantini, F. Haas, E. Jacquet, K.-O. Voss, and A. Meftah

**Phys. Rev. B 85, 054112 (2012)**

2012-021 N

<http://dx.doi.org/10.1103/PhysRevB.85.054112>

**Correlation between implantation defects and dopants in Fe-implanted SiC**

Declémy, A. Debelle, C. Dupeyrat, L. Thomé, L. Monnet, D. Eyidi

**Applied Physics A (2012) 106, 679-685**

2012-039 N

<http://dx.doi.org/10.1007/s00339-011-6660-1>

<http://hal.in2p3.fr/in2p3-00682552>

**Irradiation of Ethylene/Styrene Copolymers: Evidence of Sensitization of the Aromatic Moiety As Counterpart of the Radiation Protection Effect**

M. Ferry, E. Bessy, H. Harris, P.J. Lutz, J.-M. Ramillon, Y. Ngonon-Ravache, and E. Balanzat

**The Journal of Physical Chemistry B 116 (2012) 1771-1776**

2012-043 N

<http://dx.doi.org/10.1021/jp209535p>

**Damage and helium migration induced in fluorapatite sinters by swift heavy ion irradiations**

S. Miro, J.M. Costantini, J. Haussy, D. Chateigner, E. Balanzat

**Journal of Nuclear Materials** 423 (2012) 120–126

2012-045 N

<http://dx.doi.org/10.1016/j.jnucmat.2012.01.021>

**Electronic sputtering: angular distributions of (LiF)<sub>n</sub>Li<sup>+</sup> clusters emitted in collisions of Kr (10.1 MeV/u) with LiF single crystals**

H. Hijazi, H. Rothard, P. Boduch, I. Alzaher, A. Cassimi, F. Ropars, T. Been, J. M. Ramillon, H. Lebius and B. Ban-d'Etat, et al.

**The European Physical Journal D** Volume 66 (2012) 68

2012-047 N

<http://dx.doi.org/10.1140/epjd/e2012-20545-3>

**Online in situ x-ray diffraction setup for structural modification studies during swift heavy ion irradiation**

C. Grygiel, H. Lebius, S. Bouffard, A. Quentin, J. M. Ramillon, T. Madi, S. Guillous, T. Been, P. Guinement, D. Lelièvre, and I. Monnet

**Review of Scientific Instruments** 83, 013902 (2012)

2012-048 N

<http://dx.doi.org/10.1063/1.3680106>

**Low-energy ions interacting with anthracene molecules and clusters**

P. Rousseau, A. Ławicki, A.I.S. Holm M. Capron, R. Maisonnay, S. Maclot, E. Lattouf, H.A.B. Johansson, F. Seitz, A. Méry, J. Rangama, H. Zettergren, S. Rosén, H.T. Schmidt, J.-Y. Chesnel, A. Domaracka, B. Manil, L. Adoui, H. Cederquist, B.A. Huber

**NIM B** 279 (2012) 140-143

5th Conference on Elementary Processes in Atomic System (CEPAS), Belgrade, Serbia, June 22-24, 2011

2012-053 N

<http://dx.doi.org/10.1016/j.nimb.2011.10.050>

**Investigation of slow collisions for (quasi) symmetric heavy systems: what can be extracted from high resolution x-ray spectra**

M Trassinelli, C Prigent, E Lamour, F Mezdari, J Mérot, R Reuschl, J-P Rozet, S Steydli and D Vernhet

**J. Phys. B: At. Mol. Opt. Phys.** 45 (2012) 085202

2012-054 N

<http://dx.doi.org/10.1088/0953-4075/45/8/085202>

**Amorphization of oxides in ODS steels/materials by electronic stopping power**

I. Monnet, C. Grygiel, M.L. Lescoat, J. Ribis

**Journal of Nuclear Materials** 424 (2012) 12–16

2012-056 N

<http://dx.doi.org/10.1016/j.jnucmat.2012.01.026>

**Damage in crystalline silicon by swift heavy ion irradiation**

O. Osmani, I. Alzaher, T. Peters, B. Ban d'Etat, A. Cassimi, H. Lebius, I. Monnet, N. Medvedev, B. Rethfel b, M. Schleberger

**NIM B** 282 (2012) 43-47

Ion Beam Synthesis and Modification of Nanostructured Materials and Surfaces, Nice 2011

2012-065 N

<http://dx.doi.org/10.1016/j.nimb.2011.08.036>

**Structure and mechanical properties of swift heavy ion irradiated tungsten-bearing delta-phase oxides Y<sub>6</sub>W<sub>10</sub>O<sub>12</sub> and Yb<sub>6</sub>W<sub>10</sub>O<sub>12</sub>**

M. Tang , T.A. Wynn, M.K. Patel, J. Wona, I. Monnet, J.C. Pivin, N.A. Mara, K.E. Sickafus  
**Journal of Nuclear Materials 425 (2012) 193–196**  
2012-071 N  
<http://dx.doi.org/10.1016/j.jnucmat.2011.11.029>  
<http://hal.in2p3.fr/in2p3-00716297>

**Radiation damage of mesoporous silica thin films monitored by X-ray reflectivity and scanning electron microscopy**

S. Dourdain, X. Deschanel, G. Toquer, C. Grygiel, I. Monnet, S. Pellet-Rostaing, A. Grandjean  
**Journal of Nuclear Materials 427 (2012) 411-414**  
2012-072 N  
<http://dx.doi.org/10.1016/j.jnucmat.2012.03.046>

**Radiolysis of astrophysical ices by heavy ion irradiation: destruction cross section measurement**

A.L.F. de Barros, P. Boduch, A. Domaracka, H. Rothard, and E.F. da Silveira  
**Low Temperature Physics Vol.38 (2012) 953-960**  
2012-073 N

**Ion interaction with biomolecular systems and the effect of the environment**

A. Domaracka, M. Capron, S. Maclot, J.Y. Chesnel, Alain Méry, J.C. Pouilly, J. Rangama, L. Adoui, P. Rousseau and B.A. Huber

**Journal of Physics: Conference Series 373 (2012) 012005**

1st Nano-IBCT Conference 2011 – Radiation Damage of Biomolecular Systems:

Nanoscale Insights into Ion Beam Cancer Therapy, Caen, France, in October 2011

2012-081 N

<http://dx.doi.org/10.1088/1742-6596/373/1/012005>

**Formation of unsaturated hydrocarbons in interstellar ice analogues by cosmic rays**

Pilling S., Andrade D.P.P.; da Silveira, E.F. Rothard H., Domaracka A., Boduch P.

**MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, 423 (3):2209-2221 (2012)**

2012-083 N

<http://dx.doi.org/10.1111/j.1365-2966.2012.21031.x>

**Chemistry induced by energetic ions in water ice mixed with molecular nitrogen and oxygen**

Ph. Boduch, A. Domaracka, D. Fulvio, T. Langlinay, X. Y. Lv, M. E. Palumbo, H. Rothard, and G. Strazzulla

**Astronomy&Astrophysics 544 (2012) A30**

2012-086 N

<http://dx.doi.org/10.1051/0004-6361/201219365>

**Damage creation threshold of Al<sub>2</sub>O<sub>3</sub> under swift heavy ion irradiation**

N. Khalfaoui, J.P. Stoquert, F. Haas, C. Traumann, A. Meftah, M. Toulemonde

**NIM B 286 (2012) 247**

*The Sixteenth International Conference on Radiation Effects in Insulators (REI) Beijing, China, 14–19 August 2011*

2012-093 N

<http://dx.doi.org/10.1016/j.nimb.2011.11.047>

**Effects of electronic energy loss on the behavior of Nd<sub>2</sub>Zr<sub>2</sub>O<sub>7</sub> pyrochlore irradiated with swift heavy ions**

G. Sattonnay, L. Thomé, I. Monnet, C. Grygiel, C. Legros

**NIM B 286 (2012) 254**

*The Sixteenth International Conference on Radiation Effects in Insulators (REI) Beijing, China, 14–19 August 2011*

2012-094 N

<http://hal.in2p3.fr/in2p3-00647832/fr/>

**HRTEM study of track evolution in 120-MeV U irradiated Gd<sub>2</sub>Ti<sub>2</sub>O<sub>7</sub>**

I. Jozwik-Biala, J. Jagielski, L. Thomé, B. Arey, L. Kovarik, G. Sattonnay, A. Debelle, I. Monnet

**NIM B 286 (2012) 258**

*The Sixteenth International Conference on Radiation Effects in Insulators (REI) Beijing, China, 14–19 August 2011*

2012-095 N

<http://dx.doi.org/10.1016/j.nimb.2011.12.040>

**Nitriding aluminum alloys by N-multicharged ions implantation: Correlation between surface strengthening and microstructure modifications**

E. Hug, S. Thibault, D. Chateigner, L. Maunoury

**Surface & Coatings Technology 206 (2012) 5028–5035**

2012-096 N

<http://hal.in2p3.fr/in2p3-00725927>

**A Multicoincidence Study of Fragmentation Dynamics in Collision of  $\gamma$ -Aminobutyric Acid with Low-Energy Ions**

Michael Capron, Sergio Diaz-Tendero, Sylvain Maclot, Alicja Domaracka, Elie Lattouf, Arkadiusz Ławicki, Rémi Maisonnay, Jean-Yves Chesnel, Alain Méry, Jean-Christophe Pouilly, Jimmy Rangama, Lamri Adoui, Fernando Martin, Manuel Alcami Patrick Rousseau, and Bernd A. Huber

**Chemistry A European Journal 18 (30) (2012) 9321-9332**

2012-101 N

<http://dx.doi.org/10.1002/chem.201103922>

**Combined experimental and computational study of the recrystallization process induced by electronic interactions of swift heavy ions with silicon carbide crystals**

A. Debelle, M. Backman, L. Thomé, W. J. Weber, M. Toulemonde, S. Mylonas, A. Boulle, O. H. Pakarinen, N. Juslin, F. Djurabekova, K. Nordlund, F. Garrido, and D. Chaussende

**PHYSICAL REVIEW B 86, 100102(R) (2012)**

2012-102 N

<http://dx.doi.org/10.1103/PhysRevB.86.100102>

**Influence of Beam Conditions and Energy for SEE Testing**

Veronique Ferlet-Cavrois, James R. Schwank, Sandra Liu, Michele Muschitiello, Thierry Beutier, Arto Javanainen, Alex Hedlund, Christian Poivey, Ali Mohammadzadeh, Reno Harboe-Sørensen, Giovanni Santin, Bob Nickson, Alessandra Menicucci, Christian Binois, Daniel Peyre, Stefan Klaus Hoeffgen, Stefan Metzger, Dieter Schardt, Heikki Kettunen, Ari Virtanen, Guy Berger, Bruno Piquet, Jean-Claude Foy, Max Zafrani, Pete Truscott, Marc Poizat, and Francoise Bezerra

**IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. 59, NO. 4, AUGUST 2012 1149**

2012-104 N

<http://hal.in2p3.fr/in2p3-00731111>

**Implantation of multiply charged carbon ions in water ice**

X. Y. Lv, A. L. F. de Barros, P. Boduch, V. Bordalo, E. F. da Silveira, A. Domaracka, D. Fulvio, C. A. Hunniford, T. Langlinay, N. J. Mason, R. W. McCullough, M. E. Palumbo, S. Pilling, H. Rothard, and G. Strazzulla

**Astronomy & Astrophysics 546 (2012) A81**

2012-110 N

<http://dx.doi.org/10.1051/0004-6361/201219886>

**Dynamics of charge evolution in glass capillaries for 230-keV Xe<sup>23+</sup> ions**

A. Cassimi, T. Ikeda, L. Maunoury, C. L. Zhou, S. Guillous, A. Mery, H. Lebius, A. Benyagoub, C. Grygiel, H. Khemliche, P. Roncin, H. Merabet, and J. A. Tanis

**PHYSICAL REVIEW A 86, 062902 (2012)**

2012-125 N

<http://hal.in2p3.fr/in2p3-00761360>

**Electronic sputtering of LiF by Krypton (10 MeV/u): size dependent energy distributions of Li+(LiF)<sub>n</sub> clusters**

H. Hijazi, H. Rothard, P. Boduch, I. Alzaher, Th. Langlinay, A. Cassimi, F. Ropars, T.

Been, J.M. Ramillon, H. Lebius, B. Ban-d'Etat, L.S. Farenzena and E.F. da Silveira  
**Eur. Phys. J. D 66 (2012) 305**

2012-128 N

<http://dx.doi.org/10.1140/epjd/e2012-30252-8>

**Interaction of slow HCl with gaseous targets: absolute x-ray emission cross sections and contribution of multi-capture processes**

M. Trassinelli, T. Kirchner, E. Lamour, L. Maunoury, J. Mérot, J.-Y. Pacquet, C. Prigent, J.-M. Ramillon, R. Reuschl, J.-P. Rozet, S. Steydli and D. Vernhet

**Journal of Physics: Conference Series 388 (2012) 082010**

XXVII International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC 2011), Belfast (Northern Ireland, UK) 27 July to 2 August 2011

2012-131 N

<http://hal.in2p3.fr/in2p3-00769581>

**Angular distribution of MeV heavy ions through tapered glass capillary: experiment and simulation**

C.L.Zhou, A. Cassimi, A. Benyagoub, C. Grygiel, S. Guillous, H. Lebius, D. Lelievre, T. Madi, A. Mery, I. Monnet, J.M. Ramillon, F. Ropars, T. Ikeda, Y. Yamazaki, H. Shiromaru, M. Simon, A. Mueller, M. Doebeli

**Journal of Physics: Conference Series 388 (2012) 132036**

XXVII International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC 2011), Belfast (Northern Ireland, UK) 27 July to 2 August 2011

2012-145 N

<http://dx.doi.org/10.1088/1742-6596/388/13/132036>

**Longitudinal dilation behavior of ion-irradiated Tyranno™-SA SiC fibers at elevated-temperatures**

Kazuya Shimoda, Christian Colin

**Journal of Nuclear Materials 429 (2012) 298–304**

2012-146 N

<http://dx.doi.org/10.1016/j.jnucmat.2012.06.009>

**Transverse pseudo-nonlinear effects measured in solid-state laser materials using a sensitive time-resolved technique**

T. Godin, M. Fromager, E. Cagniot, F. Porée, T. Catunda, R. Moncorgé, K. Aït-Ameur

**Appl Phys B (2012) 107:733–740**

2012-147 N

<http://hal.in2p3.fr/in2p3-00844868>

## **THESES :**

### **GANIL T 2012-01**

**Titre de la thèse : Evolution de la collectivité autour du  $68\text{Ni}$  : rôle des états intrus**

Aurore DIJON - GANIL

**Vendredi 6 juillet 2012**

Spécialité : Constituants élémentaires et physique théorique

Directeur de thèse : Monsieur Gilles DE FRANCE

Co-Directeur de thèse : Monsieur Pieter VAN ISACKER

<http://tel.archives-ouvertes.fr/tel-00728430>

### **GANIL T 2012-02**

**Titre de la thèse : Vers une description unifiée de la structure et des réactions basée sur le modèle en couches avec états de Gamow. Application au système  $p+6\text{He}$  : spectre de  $7\text{Li}$  et diffusion  $p-6\text{He}$**

Y. Jaganathen

Vendredi 12 octobre 2012

Spécialité : Constituants élémentaires et physique théorique

Directeur de thèse : Marek PLOSZAJCZAK

### **GANIL T 2012-03**

**Titre de la thèse : Technique de la cinématique inverse pour l'étude des rendements isotopiques des fragments de fission aux énergies GANIL**

Olivier DELAUNE - GANIL

Mardi 30 octobre 2012

Spécialité : Constituants élémentaires en physique théorique

Directeur de thèse : Abdelouahad CHBIHI

<http://tel.archives-ouvertes.fr/tel-00757425>

## **RAPPORT :**

### **GANIL R 2012-01**

**Report on the detection and acquisition systems at NFS**

The NFS collaboration

<http://hal.in2p3.fr/in2p3-00711773>

### **GANIL R 2012-02**

**Section efficace de production individuelle à partir de la fission de  $^{238}\text{U}$  avec des neutrons rapides et ultra-rapides**

M. Fadil

<http://hal.in2p3.fr/in2p3-00717389>

## **THESES et HDR relatifs à GANIL :**

**Study of the very neutron-rich  $^{10}\text{He}$  by one-proton transfer reaction  $^{11}\text{Li}(d,3\text{He})$**



Adrien MATTA – IPN Orsay  
Université Paris-Sud XI  
<http://tel.archives-ouvertes.fr/tel-00684544>

**La spectroscopie d'ions de recul en Physique Atomique et en  
Physique Nucléaire: Applications à l'étude des collisions à basse énergie et à la  
mesure de la corrélation b-n en décroissance  $\beta$**

Xavier Flécharde  
Université de Caen- Basse Normandie  
<http://tel.archives-ouvertes.fr/tel-00773700>

**Etude et développement d'un refroidisseur radiofréquence à gaz tampon pour des  
faisceaux radioactifs de très hautes intensités**

Boussaid Ramzi  
Université de Caen – Basse Normandie  
<http://tel.archives-ouvertes.fr/tel-00787132>