

GRUPE PHYSIQUE
DOCUMENTATION



Edition du 18 mars 2014

Date de début de la période : 1er janvier 2013

Date de fin de la période : 31 décembre 2013

Production Scientifique du GANIL : 156

Publications relatives au GANIL dans des revues à comité de lecture (ACL) : 80

Actes de Conférences (ACTI) : 76

Physique nucléaire : 70 (ACL=32/ACTI=38)

Théorie : 25 (ACL=17/ACTI=8)

Physique des accélérateurs / Instrumentation : 29 (ACL=5/ACTI=24)

Interdisciplinaire : 32 (ACL=26/ACTI=6)

Nombre de publications « GANIL » avec le texte intégral en « accès libre »
dans HAL-IN2P3 : 48

Nombre de publications « Expérience GANIL » : 30

Thèses GANIL : 3

HDR GANIL : 1

Thèses et HDR relatives à GANIL : 7

Rapports GANIL :

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

ACL : Articles scientifiques dans une revue internationale à comité de lecture

ACTI : Communications avec actes dans un congrès international

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

Journal	ISSN *	Impact Factor **	Nombre
Nature	0028-0836	38.597	1
Physical Review Letters	0031-9007	7.943	4
Physics Letters B	0370-2693	4.569	3
Physical Review C	0556-2813	3.715	28
Physical Review A	1050-2947	3.042	2
Progress in Particle and Nuclear Physics	0146-6410	2.257	1
EUR PHYS J A	1434-6001	2.043	1
J. Phys. A: Math. Theor	1751-8113	1.766	1
Journal of Instrumentation	1748-0221	1,656	2
Nuclear Physics A	0375-9474	1.525	1
IEEE Transactions on Nuclear Science	0018-9499	1,219	1
NIM A	0168-9002	1.207	5
NIM B	0168-583X	1,114	8
Physica Scripta	0031-8949	1.032	3
Acta Physica Polonica B	0587-4254	1.011	8
Int. J. Modern Physics E	0218-3013	0,625	1
AIP Conference Proceedings	1515-7616	nr	3
EPJ Web of Conferences	2100-014X	nr	14
Few-Body System	0177-7963	nr	1
Fortshritte der Physik-Prog.of Physics	0015-8208	nr	1
Hyperfine Interactions	0304-3843	nr	4
Journal of Physics : Conference Series	1742-6596	nr	14
Physical Rev. Special Topics - Accelerators and Beams	1098-4402	nr	1
Physics Procedia	1875-3892	nr	1
Proceedings of Science		nr	1
Proceedings of IPAC2013 ***		nr	4
Proceedings of LINAC2012 ****		nr	2
Proceedings of IBIC2013		nr	5
			120

* ISSN : <http://www.issn.org/>

** J.C.R. (2012) : Web of science : <http://bibliosciences.inist.fr/>

*** : ISBN 978-3-95450-122-9

**** : ISBN 978-3-95450-135-9

PHYSIQUE NUCLEAIRE

A facility for fast-neutron irradiations at Jyväskylä and its use for nuclide cross-section measurements in fission

G. Lhersonneau, T.Malkiewicz, P.Jones, P.Karvonen, S.Ketelhut, O.Bajeat, M. Fadil, S. Gaudu, M.G.Saint-Laurent, W.H.Trzaska

Nuclear Instruments and Methods in Physics Research A 698 (2013) 224–233

2013-001 A

<http://hal.in2p3.fr/in2p3-00738344>

Recent experimental progress in nuclear halo structure studies

Isao Tanihata, Herve Savajols, Rituparna Kanungo

Progress in Particle and Nuclear Physics 68 (2013) 215–313

2013-002 A

<http://hal.in2p3.fr/in2p3-00756616>

Role of the cluster structure of ${}^7\text{Li}$ in the dynamics of fragment capture

A. Shrivastava, A. Navin, A. Diaz-Torres, V. Nanal, K. Ramachandran, M. Rejmund, S. Bhattacharyya, A. Chatterjee, S. Kailas, A. Lemasson, R. Palit, V.V. Parkar, R.G. Pillay, P.C. Rout, Y. Sawant

Physics Letters B 718 (2013) 931-936

2013-004 A

<http://hal.in2p3.fr/in2p3-00766785>

Search for Superscreening Effects in a Superconductor

P. Ujic, F. de Oliveira Santos, M. Lewitowicz, N. L. Achouri, M. Assié, B. Bastin, C. Borcea, R. Borcea, A. Buta, A. Coc, G. de France, O. Kamalou, J. Kiener, A. Lepailleur, V. Meot, A. Pautrat, M.G. Saint Laurent, O. Sorlin, M. Stanoiu, and V. Tatischeff

Physical Review Letters 110, (2013) 032501

2012-006 A

<http://hal.in2p3.fr/in2p3-00765510>

Experimental determination of the quasi-projectile mass with measured neutrons

P. Marini, A.Zarrella, A.Bonasera, G.Bonasera, P.Cammarata, L.Heilborn, Z.Kohley, J. Mabila, L.W.Mayb, A.B.McIntosh, A.Raphelt, G.A.Souliotis, S.J.Yennello

Nuclear Instruments and Methods in Physics Research A 707 (2013) 80-88

2013-007 A

<http://hal.in2p3.fr/in2p3-00750678>

Isotopic production cross sections of the residual nuclei in spallation reactions induced by ${}^{136}\text{Xe}$ projectiles on proton at 500 A MeV

L. Giot, J.A. Alcántara-Núñez, J. Benlliure, D. Pérez-Loureiro, L. Audouin, A. Boudard, E. Casarejos, T. Enqvist, J.E. Ducret, B. Fernández-Domínguez, M. Fernández Ordóñez, F. Farget, A. Heinz, V. Henzl, D. Henzlova, A. Kelić-Heil, A. Lafriaskh, S. Leray, P. Napolitani, C. Paradela, J. Pereira, M.V. Ricciardi, C. Stéphan, K.-H. Schmidt, C. Schmitt, L. Tassan-Got, C. Villagrasa, C. Volant, O. Yordanov

Nuclear Physics A 899 (2013) 116-132

2013-010 A

<http://hal.in2p3.fr/in2p3-00789526>

Spectroscopy of ${}^{26}\text{F}$ to Probe Proton-Neutron Forces Close to the Drip Line

A. Lepailleur, O. Sorlin, L. Caceres, B. Bastin, C. Borcea, R. Borcea, B. A. Brown, L. Gaudefroy, S. Grévy, G. F. Grinyer, G. Hagen, M. Hjorth-Jensen, G. R. Jansen, O. Llidoo, F. Negoita, F. de Oliveira, M.-G. Porquet, F. Rotaru, M.-G. Saint-Laurent, D. Sohler, M. Stanoiu, and J.C. Thomas

Physical Review Letters 110 (2013) 082502

2013-012 A

<http://hal.in2p3.fr/in2p3-00780657>

Evolution of the N = 28 shell closure: a test bench for nuclear forces

O Sorlin and M-G Porquet

Physica Scripta T152 (2013) 014003 (19pp)

Nobel Symposium : « Physics with Radioactive Beams », Göteborg, 11-15 juin 2012

2013-015 A

<http://hal.in2p3.fr/in2p3-00732159>

Lifetime measurements of Zn isotopes around N = 40

I. Celikovic, A. Dijon, E. Clément, G. de France P. Van Isacker, J. Ljungvall, C. Fransen, G. Georgiev A. Görgen, A. Gottardo, M. Hackstein, T.W. Hagen, C. Louchart, P., Napiorkowski, A. Obertelli, F. Recchia, W. Rother, S. Siem, B. Sulignano, P. Ujic J.J. Valiente-Dobón, M. Zielinska

Acta Physica Polonica B Vol. 44 (2013) 375

Zakopane Conference on Nuclear Physics “Extremes of the Nuclear Landscape”, Zakopane, Poland, August 27–September 2, 2012

2013-019 A

<http://hal.in2p3.fr/in2p3-00726671>

Elastic scattering of $^8\text{He} + ^{208}\text{Pb}$ at 22 MeV

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

Acta Physica Polonica B Vol. 44 (2013) 467

Zakopane Conference on Nuclear Physics “Extremes of the Nuclear Landscape”, Zakopane, Poland, August 27–September 2, 2012

2013-20 A

<http://hal.in2p3.fr/in2p3-00804422>

Lifetime measurements in neutron-rich Cu isotopes

M. Doncel, E. Sahin, A. Gadea, G. de Angelis, B. Quintana J.J. Valiente-Dobón, V. Modamio, M. Albers, D. Bazzacco, E. Clément L. Corradi, A. Dewald, G. Duchene, M.N. Erduran, E. Farnea E. Fioretto, C. Fransen, R. Gernhäuser, A. Görgen, A. Gottardo M. Hacksteind, A. Hernández-Prietoa, T. Hüyükc, S. Kluppi, W. Kortenj A. Kusoglu, S. Lenzi, C. Louchart, S. Lunardi, R. Menegazzo D. Mengoni, C. Michelagnoli, T. Mijatovic, G. Montagnoli D. Montanari, O. Möller, D.R. Napoli, A. Obertelli, R. Orlandi G. Pollarolo, F. Recchia, W. Rother, M.-D. Salsac, F. Scarlassara M. Schlarb, A. Stefanini, B. Sulignano, S. Szilner, C.A. Ure

Acta Physica Polonica B Vol. 44 (2013) 505

Zakopane Conference on Nuclear Physics “Extremes of the Nuclear Landscape”, Zakopane, Poland, August 27–September 2, 2012

2013-21 A

<http://hal.in2p3.fr/in2p3-00804438>

Study of neutron rich nucleus ^{25}F via single-step fragmentation

Zs. Vajta, D. Sohler, Zs. Dombrádi, F. Azaiez, O. Sorlin M. Stanoiu, N.L. Achouri, J.C. Angélique, M. Belleguic C. Borcea, C. Bourgeois, J.M. Daugas F. De Oliveira-Santos, Z. Dlouhy, C. Donzaud, J. Duprat S. Grévy, D. Guillemaud-Mueller, S. Leenhardt, M. Lewitowicz, M.J. Lopez-Jimenez, S.M. Lukyanov W. Mittig, Yu.-E. Penionzhkevich, M.G. Porquet F. Pougheon, P. Roussel-Chomaz, H. Savajols

M.G. Saint-Laurent, Y. Sobolev, C. Stodel, J. Timár

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Zakopane Conference on Nuclear Physics “Extremes of the Nuclear Landscape”,

Zakopane, Poland, August 27–September 2, 2012

2013-22 A

<http://hal.in2p3.fr/in2p3-00804461>

Symmetry energy and secondary decay: towards the reconstruction of primary fragments

P. Marini, M. Boisjoli, P. Wigg, A. Chbihi

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Zakopane Conference on Nuclear Physics “Extremes of the Nuclear Landscape”,

Zakopane, Poland, August 27–September 2, 2012

2013-23 A

<http://hal.in2p3.fr/in2p3-00726678>

Gamma spectroscopy of low-energy isomeric states in neutron-rich nuclei: ^{75}Cu

C. Petrone, J.M. Daugas, M. Stanoiu, F. Negoita, G. Simpson, C. Borcea, R. Borcea, L. Cáceres, S. Calinescu, R. Chevrier, L. Gaudefroy, G. Georgiev, G. Gey, O. Kamalou, C. Plaisir, F. Rotaru, O. Sorlin, J.C. Thomas

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Zakopane Conference on Nuclear Physics “Extremes of the Nuclear Landscape”,

Zakopane, Poland, August 27–September 2, 2012

2013-24 A

<http://hal.in2p3.fr/in2p3-00804488>

Testing of the PARIS LaBr₃-NaI phoswich detector with high energy gamma-rays

M. Zieblinski, M. Jastrzab, Neha Dokania, V. Nanal, S. Brambilla, P. Bednarczyk, M. Ciemała, E. Dutkiewicz, M. Kmiecik, M. Krzysiek, J. Lekki, A. Maj, Z. Szklarz, B. Wasilewska, M. Dudeło, K. Hadynska-Klek, P. Napiorkowski, B. Genolini, Ch. Schmitt, W. Catford, M. Nakhostin, N. Yavuzkanat, O. Dorvaux, R.G. Pillay, M.S. Pose, S. Mishra, S. Mathimalar, V. Singh, N. Katyan, D.R. Chakrabarty, V.M. Datar, Suresh Kumar, G. Mishra, S. Mukhopadhyay, D. Pandit, S. Erturk

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Zakopane Conference on Nuclear Physics “Extremes of the Nuclear Landscape”,

Zakopane, Poland, August 27–September 2, 2012

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<http://hal.in2p3.fr/in2p3-00804505>

Limited Asymmetry Dependence of Correlations from Single Nucleon Transfer

F. Flavigny, A. Gillibert, L. Nalpas, A. Obertelli, N. Keeley, C. Barbieri, D. Beaumel, S. Boissinot, G. Burgunder, A. Cipollone, A. Corsi, J. Gibelin, S. Giron, J. Guillot, F. Hammache, V. Lapoux, A. Matta, E. C. Pollacco, R. Raabe, M. Rejmund, N. de Sereville, A. Shrivastava, A. Signoracci, and Y. Utsuno

Physical Review Letters 110, 122503 (2013)

2013-026 A

<http://hal.in2p3.fr/in2p3-00804519>

High-precision measurement of total fission cross sections in spallation reactions of ^{208}Pb and ^{238}U

K.-H. Schmidt, B. Jurado, R. Pleskac, M.V. Ricciardi, J. Benlliure, A. Boudard, E. Casarejos, T. Enqvist, F. Farget, A. Bacquias, M. Fernandez, L. Giot, V. Henzl, D. Henzlova, A. Kelic-Heil, T. Kurtukian, S. Leray, S. Lukic, Son Nguyen Ngoc, P. Nadtochy, D. Perez, and C. Schmitt

Physical Review C 87 (2013) 034601

2013-027 A

<http://hal.in2p3.fr/in2p3-00726669>

Improved half-life determination and β -delayed γ -ray spectroscopy for ^{18}Ne decay

G. F. Grinyer, G. C. Ball, H. Bouzomita, S. Ettenauer, P. Finlay, A.B. Garnsworthy, P. E. Garrett, K.L. Green, G. Hackman, J. R. Leslie, C.J. Pearson, E.T. Rand, C.S. Sumithrarachchi, C.E. Svensson, J.C. Thomas, S. Triamba and S.J. Williams

Physical Review C 87, 045502 (2013)

2013-029 A

<http://hal.in2p3.fr/in2p3-00811770>

The behaviour of constrained caloric curves as ultimate signature of a phase transition for hot nuclei

B. Borderie, S. Piantelli, M. F. Rivet, Ad. R. Raduta, E. Bonnet, R. Bougault, A. Chbihi, E. Galichet, D. Guinet, Ph. Lantesse, N. Le Neindre, O. Lopez, M. Parlog, E. Rosato, R. Roy, G. Spadaccini, E. Vient, M. Vigilante

Journal of Physics: Conference Series 420 (2013) 012081

11th International Conference on Nucleus-Nucleus Collisions (NN2012), May 27-June 1, 2012, San Antonio, Texas, USA

2013-030 A

<http://hal.archives-ouvertes.fr/hal-00720759>

The ASY-EOS experiment at GSI: investigating the symmetry energy at supra-saturation densities

P. Russotto, M. Chartier, E. De Filippo, A. Le Fevre, S. Gannon, I. Gasparic, M. Kis, S. Kupny, Y. Leifels, R.C. Lemmon, J. Lukasik, P. Marini, A. Pagano, P. Pawlowski, S. Santoro, W. Trautmann, M. Veselsky, L. Acosta, M. Adamczyk, A. Al-Ajlan, M. Al-Garawi, S. Al-Homaidhi, F. Amorini, L. Auditore, T. Aumann, Y. Ayyad, V. Baran, Z. Basrak, J. Benlliure, C. Boiano, M. Boisjoli, K. Boretzky, J. Brzychczyk, A. Budzanowski, G. Cardella, P. Cammarata, Z. Chajecki, A. Chbihi, M. Colonna, D. Cozma, B. Czech, M. Di Toro, M. Famiano, E. Geraci, V. Greco, L. Grassi, C. Guazzoni, P. Guazzoni, M. Heil, L. Heilborn, R. Introzzi, T. Isobe, K. Kezzar, A. Krasznahorkay, N. Kurz, E. La Guidara, G. Lanzalone, P. Lasko, Q. Li, I. Lombardo, W. G. Lynch, Z. Matthews, L. May, T. Minniti, M. Mostazo, M. Papa, S. Pirrone, G. Politi, F. Porto, R. Reifarth, W. Reisdorf, F. Riccio, F. Rizzo, E. Rosato, D. Rossi, H. Simon, I. Skwirczynska, Z. Sosin, L. Stuhl, A. Trifiro, M. Trimarchi, M. B. Tsang, G. Verde, M. Vigilante, A. Wieloch, P. Wigg, H. H. Wolter, P. Wu, S. Yennello, P. Zambon, L. Zetta and M. Zoric

Journal of Physics: Conference Series 420 (2013) 012092

11th International Conference on Nucleus-Nucleus Collisions (NN2012), May 27-June 1, 2012, San Antonio, Texas, USA

2013-032 A

<http://hal.in2p3.fr/in2p3-00735859>

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

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

Journal of Physics: Conference Series 420 (2013) 012095

11th International Conference on Nucleus-Nucleus Collisions (NN2012), May 27-June 1, 2012, San Antonio, Texas, USA

2013-033 A

<http://hal.in2p3.fr/in2p3-00816844>

Isotopic yields as a probe of the symmetry energy: dealing with the secondary decay effects

P Marini, A Bonasera, A McIntosh, M Boisjoli, P Wigg, A Chbihi for the INDRA-VAMOS collaboration

Journal of Physics: Conference Series 420 (2013) 012096

11th International Conference on Nucleus-Nucleus Collisions (NN2012), May 27-June 1, 2012, San Antonio, Texas, USA

2013-034 A

<http://hal.in2p3.fr/in2p3-00816846>

Evolution of the decay mechanisms in central collisions of Xe + Sn from E/A = 8 to 29 MeV

A. Chbihi, L. Manduci, J. Moisan, E. Bonnet, J. D. Frankland, R. Roy, G. Verde

Journal of Physics: Conference Series 420 (2013) 012099

11th International Conference on Nucleus-Nucleus Collisions (NN2012), May 27-June 1, 2012, San Antonio, Texas, USA

2013-035 A

<http://hal.in2p3.fr/in2p3-00736313>

Isotopic fission fragment distributions as a deep probe to fusion-fission dynamics

F. Farget, M. Caamano, O. Delaune, O. B. Tarasov, X. Derkx, K.-H. Schmidt, A. M. Amthor, L. Audouin, C.-O. Bacri, G. Barreau, B. Bastin, D. Bazin, B. Blank, J. Benlliure, L. Caceres, E. Casarejos, A. Chbihi, B. Fernandez-Dominguez, L. Gaudefroy, C. Golabek, S. Grevy, B. Jurado, O. Kamalou, A. Lemasson, S. 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. Sherill, C. Stodel, J. Taieb, J.-C. Thomas, A. C. Villari

Journal of Physics: Conference Series 420 (2013) 012119

11th International Conference on Nucleus-Nucleus Collisions (NN2012), May 27-June 1, 2012, San Antonio, Texas, USA

2013-036 A

<http://hal.in2p3.fr/in2p3-00703163>

Fusion of ^{20}O incident ions with ^{12}C target nuclei.

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

Journal of Physics: Conference Series 420 (2013) 012119

11th International Conference on Nucleus-Nucleus Collisions (NN2012), May 27-June 1, 2012, San Antonio, Texas, USA

2013-037 A

<http://hal.in2p3.fr/in2p3-00817859>

Source-Specific Neutron Detection Efficiencies of the TAMU Neutron Ball

A. Zarrella, P. Marini, A. B. McIntosh, P. Cammarata, L. Heilborn, J. Mabilia, L.W. May, A. Raphelt, S. Yennello

Journal of Physics: Conference Series 420 (2013) 012164

11th International Conference on Nucleus-Nucleus Collisions (NN2012), May 27-June 1, 2012, San Antonio, Texas, USA

2013-039 A

<http://hal.in2p3.fr/in2p3-00817863>

Status and performances of the FAZIA project

M F Rivet, E Bonnet, B Borderie, R Bougault, P Edelbruck, N Le Neindre, S Barlini, S Carboni, G Casini, E Rosato, G Tortone for the FAZIA Collaboration

Journal of Physics: Conference Series 420 (2013) 012160

11th International Conference on Nucleus-Nucleus Collisions (NN2012), May 27-June 1, 2012, San Antonio, Texas, USA

2013-038 A

<http://hal.in2p3.fr/in2p3-00726984>

γ -ray linear polarization measurements and $(g9/2)^{-3}$ neutron alignment in ^{91}Ru

Y. Zheng, G. de France, E. Clément, A. Dijon, B. Cederwall, R. Wadsworth, T. Back, F. Ghazi Moradi, G. Jaworski, B.M. Nyako, J. Nyberg, M. Palacz, H. Al-Azri, G. de Angelis, A. Atac, O. Aktas, S. Bhattacharyya, T. Brock, P. J. Davies, A. Di Nitto, Zs. Dombradi, A. Gadea, J. Gal, P. Joshi, K. Juhasz, R. Julin, A. Jungclaus, G. Kalinka, J. Kownacki, G. La Rana, S.M. Lenzi, J. Molnar, R. Moro, D.R. Napoli, B. S. Nara Singh, A. Persson, F. Recchia, M. Sandzelius, J.-N. Scheurer, G. Sletten, D. Sohler, P.-A. Soderstrom, M.J. Taylor, J. Timar, J.J. Valiente-Dobon, E. Vardaci

Physical Review C 87, 044328 (2013)

2013-040 A

<http://hal.in2p3.fr/in2p3-00812347>

Influence of neutron enrichment on compound system formation and decay in $^{78}\text{Kr}+^{40}\text{Ca}$ and $^{86}\text{Kr}+^{48}\text{Ca}$ reactions at 10 A MeV

S. Pirrone, G. Politi, 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. 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. Quinlann, F. Rizzo, E. Rosato, P. Russotto, W. U. Schroeder, G. Spadaccini, A. Trifirò, J. Toke, M. Trimarchi, G. Verde

AIP Conf. Proc. 1524, pp. 7-10, (2013)

International Conference on Recent Trends in Nuclear Physics-2012: ICRTNP-2012, 19–21 November 2012, Chitkara University, Barotiwala, India

2013-041 A

<http://hal.in2p3.fr/in2p3-00807742>

Two-proton radioactivity, a new probe for structure at the proton drip-line

J. Giovinazzo, P. Ascher, L. Audirac, B. Blank, C. Dossat, G. Canchel, C.-E. Demonchy, S. Grévy, S. Leblanc, J.-L. Pedroza, J. Pibernat, L. Serani, C. Borcea, F. De Oliveira-Santos, C. Stodel, J.-C. Thomas, I. Matea, and L. Perrot

AIP Conf. Proc. 1524, pp. 15-19, (2013)

International Conference on Recent Trends in Nuclear Physics-2012: ICRTNP-2012, 19–21 November 2012, Chitkara University, Barotiwala, India

2013-042 A

<http://hal.in2p3.fr/in2p3-00817015>

Alpha cluster structure in ^{56}Ni

H. Akimune, M. Fujiwara, J. Gibelin, M N Harakeh, L Achouri, S Bagchi, B Bastin, K Boretzky, H Bouzomita, L Caceres, S Damoy, F Delaunay, B. Fernández-Domínguez, M Caamano, U Garg, G F Grinyer, N Kalantar-Nayestanaki, O Kamalou, E Khan, A Krasznahorkay, G Lhoutellier, S Lukyanov, K Mazurek, M Najafi, J Pancin, Y Penionzkhevich, L Perrot, R Raabe, C E Rigollet, T Roger, S Sambhi, H Savajols, M Senoville, C Stodel, L Suen, J C Thomas, J van de Walle and M Vandebrouck

Journal of Physics: Conference Series 436 (2013) 012010

10th International Conference on Clustering Aspects of Nuclear Structure and Dynamics, Debrecen, Hungary, 24–28 September 2012

2013-043 A

<http://hal.in2p3.fr/in2p3-00817863>

Two-proton radioactivity: 10 years of experimental progresses

J Giovinazzo, P Ascher, L Audirac, B Blank, C Borcea, G Canchel, C E Demonchy,

C Dossat, S Grévy, S Leblanc, I Matea, F de Oliveira-Santos, J L Pedroza, L Perrot, J Pibernat, L Serani, C Stodel, J C Thomas

Journal of Physics: Conference Series 436 (2013) 012057

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2013-044 A

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Pseudo-critical clusterization in nuclear multifragmentation

D. Gruyer, J.D. Frankland, R. Botet, M. Płoszajczak, E. Bonnet, A. Chbihi and P. Marini for the INDRA collaboration

Journal of Physics: Conference Series 436 (2013) 012079

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2013-045 A

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Physical Review Letters 110, 172701 (2013)

2013-049 A

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D. Doré, F. Farget, F.-R. Lecolley, X. Ledoux, G. Lehaut, T. Materna, J. Pancin, S. Panebianco and the FALSTAFF and NFS Collaborations

EPJ Web of Conferences 42 (2013) 01001

2013-051 A

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C. Louchart, A. Obertelli, A. Gorgen, W. Korten, D. Bazzacco, B. Birkenbach, B. Bruyneel, E. Clément, P.J. Coleman-Smith, L. Corradi, D. Curien, G. de Angelis, G. de France, J.-P. Delaroche, A. Dewald, F. Didierjean, M. Doncel, G. Duchêne, J. Eberth, M.N. Erduran, E. Farnea, C. Finck, E. Fioretto, C. Fransen, A. Gadea, M. Girod, A. Gottardo, J. Grebosz, T. Habermann, M. Hackstein, T. Huyuk, J. Jolie, D. Judson, A. Jungclaus, N. Karkour, S. Klupp, R. Krucken, A. Kusoglu, S. M. Lenzi, J. Libert, J. Ljungvall, S. Lunardi, G. Maron, R. Menegazzo, D. Mengoni, C. Michelagnoli, B. Million, P. Molini, O. Möller, G. Montagnoli, D. Montanari, D.R. Napoli, R. Orlandi, G. Pollarolo, A. Prieto, A. Pullia, B. Quintana, F. Recchia, P. Reiter, D. Rosso, W. Rother, E. Sahin, M.-D. Salsac, F. Scarlassara, M. Schlarb, S. Siem, P.P. Singh, P.-A. Söderström, A.M. Stefanini, O. Stezowski, B. Sulignano, S. Szilner, Ch. Theisen, C.A. Ur, J.J. Valiente-Dobon, M. Zielinska

Physical Review C 87, 054302 (2013)

2013-054 A

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S. Barlini, S. Piantelli, G. Casini, P. R. Maurenzig, A. Olmi, M. Bini, S. Carboni, G. Pasquali, G. Poggi, A.A. Stefanini, R. Bougault, E. Bonnet, B. Borderie, A. Chbihi, J. D. Frankland, D. Gruyer, O. Lopez, N. Le Neindre, M. Parlog, M. F. Rivet, E. Vient, E. Rosato, G. Spadaccini, M. Vigilante, M. Bruno, T. Marchi, L. Morelli, M. Cinausero, M. Degerlier, F. Gramegna, T. Kozik, T. Twarog, R. Alba, C. Maiolino, and D. Santonocito (FAZIA Collaboration)

Physical Review C 87, 054607 (2013)

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D. Verney, B. Tastet, K. Kolos, F. Le Blanc, F. Ibrahim, M. Cheikh Mhamed, E. Cottureau, P. V. Cuong, F. Didierjean, G. Duchêne, S. Essabaa, M. Ferraton, S. Franchoo, L.H. Khiem, C. Lau, J.-F. Le Du, I. Matea, B. Mouginot, M. Niikura, B. Roussière, I. Stefan, D. Testov, and J.-C. Thomas

Physical Review C 87, 054307 (2013)

2013-056 A

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2013-059 A

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G. T. Koldste, B. Blank, M. J. G. Borge, J. A. Briz, M. Carmona-Gallardo, L. M. Fraile, H. O. U. Fynbo, J. Giovinazzo, J.G. Johansen, A. Jokinen, B. Jonson, T. Kurturkian-Nieto, J. H. Kusk, T. Nilsson, A. Perea, V. Pesudo, E. Picado, K. Riisager, A. Saastamoinen, O. Tengblad, J.-C. Thomas, and J. Van de Walle

Physical Review C 87, 055808 (2013)

2013-061 A

<http://hal.in2p3.fr/in2p3-00827313>

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2013-066 A

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Physical Review C 88, 015501 (2013)

2013-071 A

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J. Dudouet, D. Juliani, M. Labalme, D. Cussol, J. C. Angélique, B. Braunn, J. Colin, Ch. Finck, J. M. Fontbonne, H. Guérin, P. Henriquet, J. Krimmer, M. Rousseau, M.G. Saint-Laurent, and S. Salvador

Physical Review C 88, 024606 (2013)

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Physical Review C 88, 034301 (2013)

2013-092 A

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2013-094 A

<http://hal.in2p3.fr/in2p3-00860198>

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Physical Review C 88, 034313 (2013)

2013-096 A

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Physical Review C 88, 044305 (2013)

2013-101 A

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2013-107 A

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K. Kolos, D. Verney, F. Ibrahim, F. Le Blanc, S. Franchoo, K. Sieja, F. Nowacki, C. Bonnin, M. Cheikh Mhamed, P. V. Cuong, F. Didierjean, G. Duchêne, S. Essabaa, G. Germogli, L. H. Khiem, C. Lau, I. Matea, M. Niikura, B. Roussière, I. Stefan, D. Testov, and J.-C. Thomas

PHYSICAL REVIEW C 88, 047301 (2013)

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C. Couratin, X. Fabian, B. Fabre, B. Pons, X. Fléchar, E. Liénard, G. Ban, M. Breitenfeldt, P. Delahaye, D. Durand, A. Méry, O. Naviliat-Cuncic, T. Porobic, G. Quémener, D. Rodriguez, N. Severijns, J.-C. Thomas, and S. Van Gorp

PHYSICAL REVIEW A 88, 041403(R) (2013)

2013-110 A

<http://hal.in2p3.fr/in2p3-00868612>

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V. Modamio, J.J. Valiente-Dobon, S. Lunardi, S.M. Lenzi, A. Gadea, D. Mengoni, D. Bazzacco, A. Algora, P. Bednarczyk, G. Benzoni, B. Birkenbach, A. Bracco, B. Bruyneel, A. Burger, J. Chavas, L. Corradi, F.C.L. Crespi, G. de Angelis, P. Desesquelles, G. de France, R. Depalo, A. Dewald, M. Doncel, M.N. Erduran, E. Farnea, E. Fioretto, Ch. Fransen, K. Geibel, A. Gottardo, A. Gorgen, T. Habermann, M. Hackstein, H. Hess, T. Huyuk, P.R. John, J. Jolie, D. Judson, A. Jungclaus, N. Karkour, R. Kempley, S. Leoni, B. Melon, R. Menegazzo, C. Michelagnoli, T. Mijatovic, B. Million, O. Moller, G. Montagnoli, D. Montanari, A. Nannini, D.R. Napoli, Zs. Podolyak, G. Pollarolo, A. Pullia, B. Quintana, F. Recchia, P. Reiter, D. Rosso, W. Rother, E. Sahin, M.D. Salsac, F. Scarlassara, K. Sieja, P. A. Soderstrom, A. M. Stefanini, O. Stezowski, S. Szilner, Ch. Theisen, B. Travers, C.A. Ur

PHYSICAL REVIEW C 88, 044326 (2013)

2013-113 A

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H. Wang, N. Aoi, S. Takeuchi, M. Matsushita, P. Doornenbal, T. Motobayashi, D. Steppenbeck, K. Yoneda, H. Baba, L. Caceres, Zs. Dombradi, K. Kobayashi, Y. Kondo, J. Lee, K. Li, H. Liu, R. Minakata, D. Nishimura, H. Otsu, S. Sakaguchi, H. Sakurai, H. Scheit, D. Sohler, Y. Sun, Z. Tian, R. Tanaka, Y. Togano, Zs. Vajta, Z. Yang, T. Yamamoto, Y. Ye, and R. Yokoyama

PHYSICAL REVIEW C 88, 054318 (2013)

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<http://hal.in2p3.fr/in2p3-00906583>

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Y.X. Watanabe, Y. Hirayama, N. Imai, H. Ishiyama, S.C. Jeong, H. Miyatake, E. Clement, G. de France, A. Navin, M. Rejmund, C. Schmitt, G. Pollarolo, L. Corradi, E. Fioretto, D. Montanari, S.H. Choi, Y.H. Kim, J.S. Song, M. Niikura, D. Suzuki, H. Nishibata, J. Takatsu
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2013-126 A

<http://hal.in2p3.fr/in2p3-00842900>

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2013-127 A

<http://hal.in2p3.fr/in2p3-00876182>

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PHYSICAL REVIEW C 88, 062802(R) (2013)

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PHYSICAL REVIEW C 88, 064607 (2013)

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<http://hal.in2p3.fr/in2p3-00868032>

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Pierre Delahaye

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D.A. Fink, S.D. Richter, B. Bastin, K. Blaum, R. Catherall, T.E. Cocolios, D.V. Fedorov, V.N. Fedosseev, K.T. Flanagan, L. Ghys, A. Gottberg, N. Imai, T. Kron, N. Lecesne, K.M. Lynch, B.A. Marsh, T.M. Mendonca, D. Pauwels, E. Rapisarda, J.P. Ramos, R.E. Rossel, S. Rothe, M.D. Seliverstov, M. Sjödin, T. Stora, C. Van Beveren, K.D.A. Wendt

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2013—123 C

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B.A. Marsh, B. Andel, A.N. Andreyev, S. Antalic, D. Atanasov, A.E. Barzakh, B. Bastin, Ch. Borgmann, L. Capponi, T.E. Cocolios, T. Day Goodacre, M. Dehairs, X. Derkx, H. De Witte, D.V. Fedorov, V.N. Fedosseev, G.J. Focker, D.A. Fink, K.T. Flanagan, S. Franchoo, L. Ghys, M. Huyse, N. Imai, Z. Kalaninova, U. Kösterm, S. Kreim, N. Kesteloot, Yu. Kudryavtsev, J. Lane, N. Lecesne, V. Liberati, D. Lunney, K.M. Lynch, V. Manea, P.L. Molkanov, T. Nicol, D. Pauwels, L. Popescu, D. Radulov, E. Rapisarda, M. Rosenbusch, R.E. Rossel, S. Rothe, L. Schweikhard, M.D. Seliverstov, S. Sels, A.M. Sjödin, V. Truesdale, C. Van Beveren, P. Van Duppen, K. Wendt, F. Wienholtz, R.N. Wolf, S.G. Zemlyanoy

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In gas laser ionization and spectroscopy experiments at the Superconducting Separator Spectrometer (S3): Conceptual studies and preliminary design

R. Ferrer, B. Bastin, D. Boilley, P. Creemers, P. Delahaye, E. Liénard, X. Fléchar, S. Franchoo, L. Ghys, M. Huyse, Yu. Kudryavtsev, N. Lecesne, H. Lu, F. Lutton, E. Mogilevskiy, D. Pauwels, J. Piot, D. Radulov, L. Rens, H. Savajols, J.C. Thomas, E. Traykov, C. Van Beveren, P. Van den Bergh, P. Van Duppen

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D. Dore, F. Farget, F.-R. Lecolley, G. Lehaut, T. Materna, J. Pancin, S. Panebianco, and Th. Papaevangelou

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M Voštinar, B Fernández, J Pancin, M A G Alvarez, T Chaminade, S Damoy, D Doré, A Drouart, F Druillole, G Frémont, M Kebbiri, T Materna, E Monmarthe, S Panebianco, T Papaevangelou, M Riallot, H Savajols and C Spitaels

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INTERDISCIPLINAIRE

SPORT: A new sub-nanosecond time-resolved instrument to study swift heavy ion-beam induced luminescence – Application to luminescence degradation of a fast plastic scintillator

E. Gardés, E. Balanzat, B. Ban-d'Etat, A. Cassimi, F. Durantel, C. Grygiel, T. Madi, I. Monnet, J.-M. Ramillon, F. Ropars, H. Lebius

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Saturation of irradiation damage in (Ti,Zr)₃(Si,Al)C₂ compounds

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2013-011 N

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Radiation damage induced by swift heavy ions in TiO₂ sol–gel films nanocrystallines

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Effect of combined local variations in elastic and inelastic energy losses on the morphology of tracks in ion-irradiated materials

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M. Sall, I. Monnet, C. Grygiel, B. Ban d'Etat, H. Lebius, S. Leclerc and E. Balanzat

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G. Sattonnay, L. Thomé, N. Sellami, I. Monnet, C. Grygiel, C. Legros and R. Tetot

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p53-independent early and late apoptosis is mediated by ceramide after exposure of tumor cells to photon or carbon ion irradiation

Gersende Alphonse, Mira Maalouf, Priscillia Battiston-Montagne, Dominique Ardail, Michaël Beuve, Robert Rousson, Gisela Taucher-Scholz, Claudia Fournier and Claire Rodriguez-Lafrasse

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Radiation damage in multiphase ceramics

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Detecting swift heavy ion irradiation effects with graphene

O. Ochedowski, S. Akcöltekin, B. Ban-d'Etat, H. Lebius, M. Schleberger

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A. Jankowiak, C. Grygiel, I. Monnet, Y. Serruys, C. Colin, S. Miro, L. Gelebart, L. Gosmain, J.-M. Costantini

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Ion tracks and microstructures in barium titanate irradiated with swift heavy ions: A combined experimental and computational study

W. Jiang, R. Devanathan, C.J. Sundgren, M. Ishimaru, K. Sato, T. Varga, S. Manandhar, A. Benyagou

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Complementary and Emerging Techniques for Astrophysical Ices Processed in the Laboratory

M.A. Allodi, R.A. Baragiola, G.A. Baratta, M.A. Barucci, G.A. Blake, P. Boduch, J.R. Brucato, C. Contreras, S.H. Cuyllé, D. Fulvio, M.S. Gudipati, S. Ioppolo, Z. Kanuchová, A. Lignell, H. Linnartz, M.E. Palumbo, U. Raut, H. Rothard, F. Salama, E.V. Savchenko, E. Sciamma-O'Brien, G. Strazzulla

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Transmission of slow highly charged ions through glass capillaries: Role of the capillary shape

C.L. Zhou, M. Simon, T. Ikeda, S. Guillous, W. Iskandar, A. Méry, J. Rangama, H. Lebius, A. Benyagou, C. Grygiel, A. Muller, M. Döbeli, J. A. Tanis, and A. Cassimi

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Aliphatic/Aromatic Systems under Irradiation: Influence of the Irradiation Temperature and of the Molecular Organization

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

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Characterization of the thermal conductivity of insulating thin films by scanning thermal microscopy

Severine Gomes, Pascal Newby, Bruno Canut, Konstantinos Termentzidis, Olivier Marty, Luc Frechette, Patrice Chantrenne, Vincent Aimez, Jean-Marie Bluet, Vladimir Lysenko

Microelectronics Journal 44 (2013) 1029–1034

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THESES GANIL:

GANIL T 2013-01

Etude du noyau peu lié de ^{26}F pour sonder l'évolution des forces nucléaires à l'approche de la limite de liaison nucléaire

Alexandre LEPAILLEUR

Spécialité : Constituants Elementaires et Physique Théorique

Directeur de thèse : Olivier SORLIN

GANIL T 2013-02

Etude de l'énergie de symétrie dans les collisions $^{40,48}\text{Ca} + ^{40,48}\text{Ca}$ à 35 MeV/A

Mark BOISJOLI
Spécialité : Constituants Élémentaires et Physique Théorique
Directeur de thèse : Abdelouahad CHBIHI

GANIL T 2013-03

Nuclear structure around doubly-magic nuclei : lifetime measurements in the vicinity of ^{68}Ni and search for isomers around ^{100}Sn

Monsieur Igor CELIKOVIC
Spécialité : Constituants Élémentaires et physique théorique
Directeur de thèse : Monsieur Gilles DE FRANCE
Co-Directeur : Monsieur Marek LEWITOWICZ
<http://tel.archives-ouvertes.fr/tel-00981493>

HDR GANIL :

GANIL R 2013-01

Etude de la dynamique des processus de transformation atomes-ions dans les systèmes ISOL de production d'ions radioactifs

Pascal Jardin
<http://tel.archives-ouvertes.fr/tel-00927550>

THESES RELATIVES A GANIL :

Etude systématique de la dynamique et de la thermodynamique des systèmes nucléaires symétriques ou quasi-symétriques étudiés avec le multidétecteur INDRA par des méthodes probabilistes nouvelles.

Legouée Elodie
Université de Caen Basse-Normandie – 2013
<http://tel.archives-ouvertes.fr/tel-00881082>

Mesures de précision avec LPCTrap et développements techniques à GANIL : corrélation angulaire bêta-neutrino ($\alpha\beta\nu$) et probabilité deshakeoff dans la décroissance de $l'^{6}\text{He}^+$, étude de la production de nouveaux faisceaux à SPIRAL.

Couratin Claire
Université de Caen Basse-Normandie – 2013
<http://tel.archives-ouvertes.fr/tel-00913412>

Première mesure des résonances géantes isoscalaires dans un noyau exotique riche en neutrons : le ^{68}Ni avec la cible active MAYA

Vandebrouck Marine
Université Paris Sud - 2013
<http://tel.archives-ouvertes.fr/tel-00872712>

Interaction ion-surface : simulation de l'interaction plasma- paroi (ITER)

Salou Pierre
Université de Caen Basse-Normandie – 2013
<http://tel.archives-ouvertes.fr/tel-00915747>

**Irradiation par des ions de grande énergie de semiconducteurs III-N (AlN, GaN, InN)
: création de défauts ponctuels et étendus.**

Sall Mamour

Université de Caen Basse-Normandie – 2013

<http://tel.archives-ouvertes.fr/tel-00936879>

Polymères sous rayonnements ionisants : étude des transferts d'énergie vers les défauts d'irradiation

Ventura Aude

Université de Caen Basse-Normandie – 2013

<http://tel.archives-ouvertes.fr/tel-00950232>

Développement de la plateforme Radiograaff d'irradiation protons pour des études en radiobiologie

Julie Constanzo

Université Claude Bernard Lyon 1

<http://tel.archives-ouvertes.fr/tel-977357>