

Grand Accélérateur National d'Ions Lourds

GANIL

Laboratoire commun CEA / DSM - CNRS / IN²P³

GROUPE PHYSIQUE

DOCUMENTATION GANIL



Edition du 11 janvier 2008

Date de début de la période : 1 janvier 2007

Date de fin de la période : 31 décembre 2007

Production Scientifique du GANIL : 130

Publications relatives au GANIL dans des revues à comité de lecture (ACL) : 56

Actes de Conférences (ACTI) : 74

Physique nucléaire : 65 (ACL=26/ACTI=39)

Théorie : 24 (ACL=14/ACTI=10)

Physique des accélérateurs / Instrumentation : 14 (ACL=0/ACTI=14)

Interdisciplinaire : 27 (ACL=16/ACTI=11)

Rapports GANIL : 4

Thèses GANIL : 4

HDR GANIL :

Thèses relatives au GANIL : 9

HDR Relatif au GANIL : 1

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

Journal	Impact Factor *	Nombre	%
Physical Review Letters		6	
Physics Letters B		2	
Physical Review C		16	
J. Phys. G : Nucl. Part. Phys.		1	
Eur. Phys. J. A		4	
Nuclear Physics A		16	
NIM A		2	
Hyperfine Interactions		2	
Int. J. Modern Physics E		2	
Journal of Physics A		1	
Progress in Particle and Nuclear Physics		3	
Acta Physica Polonica B		4	
Ricerca Scientifica ed Educ. Perm. Suppl.		4	
Eur. Phys. J. Special Topics		11	
AIP Conference Proceedings	nr	15	
Proceedings of PAC 07	nr	4	
Proceedings of DIPAC'07	nr	1	
Proceedings of SRF 07	nr	2	
Proceedings ICALEPS07	nr	1	
Proceedings of Cyclotron and Their Applications	nr	2	
		99	

*J.C.R. ()

PHYSIQUE NUCLEAIRE

Probing the ^8He ground state via the $^8\text{He}(p,t)^6\text{He}$ reaction

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

CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette, IPN Orsay – Orsay, GANIL CEA-DSM/IN2P3-CNRS – Caen, Dep. of Physics Florida State Univ. – Tallahassee, Dep. of Physics Univ. of Ionnina – Ioannina, Dep. of Nuclear Reaction The Andrzej Soltan Ins. Nucl. Stud. – Warsaw, FLNR JINR – Dubna, The Henryk Niewodniczanski Inst. of Nuclear Physics - Krakow

Physics Letters B 646 (2007) 222-226

07 02 A

<http://hal.in2p3.fr/in2p3-00135623/fr/>

Transition from participant to spectator fragmentation in Au+Au reactions between 60A and 150A MeV

Zbiri K., Le Fèvre A., Aichel J., Lukasik J., Reisdorf W., and Gulminelli F., Lynen U., müller W.F.J., Orth H., Schwartz C., Sfienti C., Trautmann W., Turzo K., Zwieglinski B., (ALADIN Collaboration), Charvet J. L, Chbihi A., Dayras R., Durand D., Frankland J.D., Legrain R., Le Neindre N., Lopez O., Nalpas L., Parlog M., Plagnol E., Rivet M.F., Rosato E., Vient E., Vigilante M., Volant C., Wieleczko J.P. (INDRA Collaboration)

CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette, IPN Orsay – Orsay, GANIL CEA-DSM/IN2P3-CNRS – Caen, LPC –Caen, NIPNE – Bucharest, APC –Paris, Univ. di Napoli - napoli

Physical Review C 75 (2007) 034612

07 06 A

<http://hal.in2p3.fr/in2p3-00084674/fr/>

Production cross-sections of proton-rich ^{70}Ge fragments and the decay of ^{57}Zn and ^{61}Ge

Blank B., Borcea C., Canchel G., Demonchy C.-E., De Oliveira Santos F., Dossat C., Giovinazzo J., Grévy S., Hay L., Hellmuth P., Leblanc S., Matea I., Pedroza J.L-L, Perrot L., Pibernat J., Rebi A., Serani L., Thomas J.C.

CENBG – Gradignan, IAP – Bucharest-Margurele, GANIL – Caen, DAPNIA CEA Saclay - Gif-sur-Yvette

European Physical Journal A 31 (2007) 267-272

07 08 A

<http://hal.in2p3.fr/in2p3-00140737/fr/>

Ternary reactions in $^{197}\text{Au} + ^{197}\text{Au}$ collisions revisited

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

Institute of Experimental Physics Warsaw University - Warsaw, A. Soltan Institute for Nuclear Studies - Świerk/Warsaw, INFN Sezione di Catania and Dipart. di Fisica e Astronomia, Univ. di Catania - Catania, INFN LNS and Dipartimento di Fisica e Astronomia Univ. di Catania - Catania, Saha Institute of Nuclear Physics - Kolkata, INFN Sezione di Milano and Dipart. di Fisica, Univ. di Milano, Institute of Physics Univ. of Silesia - Katowice, M. Smoluchowski Institute of Physics Jagellonian Univ. - Cracow, Department of Physics, Univ. of Ioannina - Ioannina, INFN, Gruppo Collegato di Messina and

Dipartimento di Fisica Univ. di Messina, Heavy Ion Laboratory Warsaw Univ., Warsaw - Warsaw, GANIL CEA IN2P3-CNRS - Caen

International Journal of Modern Physics E 16 (2007) 511-515

13th Workshop on Nuclear Physics « Marie and Pierre Curie », Kazimierz Dolny (PL)

27 septembre 2007

07 10 A

<http://hal.in2p3.fr/in2p3-00134988/fr/>

MAYA, a gaseous active target

Demonchy C.E., Mittig W., Savajols H., Roussel-Chomaz P., Chartier M., Jurado B., Giot L., Cortina-Gil D., Caamano M., Ter-Arkopian G., Fomichev A., Rodin A., Golovkov M.S., Stepantsov S., Gillibert A., Pollacco E., Obertelli A., Wang H.,

GANIL – Caen, Univ. of Liverpool, Univ. Santiago de Compostel – Santiago de Compostela, FLNR JINR – Moscow, CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette

NIM A 573 (2007) 145-148

7th International Conference on Position-Sensitive Detectors – PSD-7, Liverpool (UK)

9-13 septembre 2005

07 12 A

<http://hal.in2p3.fr/in2p3-00138946/fr/>

Spectroscopy Around ^{36}Ca

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

Univ Bonn – Bonn, IPN – Orsay, GSI – Darmstadt, INR – Debrecen, LPC – caen, INFN – Milano, IFIN-HH- Buchrest, CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette, GANIL – Caen, NPI – Rez, NBI – Copenhagen, Univ. of Surrey - Guildford

Acta Physica Polonica B Vol. 38, No. 4, (2007) 1353

Zakopane Conference on Nuclear Physics, Zakopane (POL), 4 septembre 2006

07 17 A

<http://hal.in2p3.fr/in2p3-00122690/fr/>

Dynamics of "Binary" $^{197}\text{Au}+^{197}\text{Au}$ Collisions as a Test of Energy Dissipation Mechanism

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

Warsaw Univ. - Warsaw, ASINS – Swierk, INFN – Catania, INFN LNS – Catania, INFN – Milano, Univ. of Silesia – Katowice, Jagiellonian Univ. – Cracow, Univ. of Ioannina – Ioannina, INFN – Messina, GANIL - Caen

Acta Physica Polonica B Vol. 38, No. 4, (2007) 1509

Zakopane Conference on Nuclear Physics, Zakopane (POL), 4 septembre 2006

07 18 A

<http://hal.in2p3.fr/in2p3-00142030/fr/>

Spectroscopy of Proton-Odd Transfermium Nuclei

Theisen Ch.

CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette

Acta Physica Polonica B Vol. 38, No. 4, (2007) 1525

Zakopane Conference on Nuclear Physics, Zakopane (POL), 4 septembre 2006

07 19 A

SPIRAL at GANIL : Latest results and plans for the future

Villari A.C.C., Eleon C., Alves-Condé R., Angelique J.C., Barué C., Canet C., Dubois M., Dupuis M., Flambard J.L., Gaubert G., Jardin P., Lecesne N., Leherissier P., Lemagnen F., Leroy R., Maunoury L., Pacquet J.Y., Pellemoine F., Saint-Laurent M.G., Stodel C., Thomas J.C.

GANIL – Caen, LPC – Caen, CIRIL - Caen

Nuclear Physics A 787 (2007) 126c-133c

Ninth International Conference on Nucleus-Nucleus Collisions (NN2006),

Rio de Janeiro (BRE), 8 août 2006

07 21 A

<http://hal.in2p3.fr/in2p3-00118755/fr/>

Structure of exotic nuclei from direct reactions

Gillibert A., Alamanos N., Alvarez M., Auger F., Beaumel D., Becheva E., Blumenfeld Y., Dayras R., Delaunay F., Drouart A., De France G., Giot L., Jurado B., Keeley N., Kemper K.W., Lapoux V., Mittig W., Mougeot X., Nalpas L., Obertelli A., Patronis N., Pakou A., Pollacco E.C., Raabe R., Roussel-Chomaz P., Rejmund F., Rejmund M., Savajols H., Scarpaci J.A., Sida J.L., Skaza F., Stepantsov S., Theisen C., Wolski R.

CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette, IPN –Orsay, GANIL – Caen, Florida State Univ. – Florida, Univ. of Ioannina – Ioannina, JINR FLNR – Dubna, HNINP - Krakow

Nuclear Physics A 787 (2007) 423c-432c

Ninth International Conference on Nucleus-Nucleus Collisions (NN2006)

Rio de Janeiro (BRE), 28 août 2006

07 22 A

<http://hal.in2p3.fr/in2p3-00121541/fr/>

Mass measurement of neutron-rich nuclei near the N=20 and 28 shell closures

Jurado B., Savajols H., Mittig W., Orr N.A., Roussel-Chomaz P., Baiborodin D., Catford W.N., Chartier M., Demonchy C.E., Dlouhý Z., Gillibert A., Giot L., Khouaja A., Lépine-Szily A., Lukyanov S., Mrazek J., Penionzhkevich Y.E., Pita S., Rousseau M., Villari A.C.
GANIL – Caen, LPC –Caen, NPI – Rez, Univ of Surrey – Guildford, Univ. of Liverpool – Liverpool, CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette, IFUSP – Sao Paulo, FLNR JINR - Dubna

Physics Letters B 649 (2007) 43-48

07 24 A

<http://hal.in2p3.fr/in2p3-00144999/fr/>

SPIRAL2 at GANIL : a world leading ISOL facility at the dawn of the next decade

Galès S.

GANIL – Caen

Progress in Particle and Nuclear Physics 59 (2007) 22-31

International Workshop on Nuclear Physics 28th Course radioactive Beams, Nuclear Dynamics and Astrophysics, Erice (IT), 16-24 septembre 2006

07 27 A

<http://hal.in2p3.fr/in2p3-00150611/fr/>

Single particle structure of exotic nuclei with transfer reactions

Fernandez-Domínguez B., Lemmon R.C., Timis C., Labiche M., Catford W.N., Chartier M., Ashwood N.I., Amzal N., Baldwin T.D., Burns M., Caballero L., Chapman R., Curtis N., De France G., Freer M., Gelletly W., Liang X., Orr N.A., Pain S.D., Pucknell V.P.E., Rejmund M., Rubio B., Savajols H., Sorlin O., Spohr K., Thiesen C., Warner D.D.

Univ. of Liverpool, CCLRC – Daresbury, Univ. of Surrey – Surrey, Univ. of Paisley, Univ. of Birmingham – Birmingham, IFIC CSIC Univ. de Valencia – Valencia, GANIL – Caen, LPCC - Caen, IPN – Orsay, CEA Saclay – Gif-sur-yvette

Progress in Particle and Nuclear Physics 59 (2007) 389-391

International Workshop on Nuclear Physics 28th Course radioactive Beams, Nuclear Dynamics and Astrophysics, Erice (IT), 16-24 septembre 2006

07 28 A

<http://hal.in2p3.fr/in2p3-00151964/fr/>

Decay of 1, 2, 3-phonon states in ^{40}Ca

Fallot M., Scarpaci J.A., Frascaria N., Blumenfeld Y., Chbihi A., Chomaz P., Desesquelles P., Frankland J., Khan E., Laville J.L., Plagnol E., Pollacco E.C., Roussel-Chomaz P., Roynette J.C., Shrivastava A., Zerguerras T.

IPN – Orsay, GANIL – Caen, CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette

Nuclear Physics A 788 (2007) 106c-111c

2nd International Conference on collective Motion in Nuclei under extreme Conditions (COMEX 2), Sankt Goar (GER), 20-23 june 2006

07 33 A

<http://hal.in2p3.fr/in2p3-00153566/fr/>

Pair correlations in nuclei involved in neutrinoless double β decay: ^{76}Ge and ^{76}Se

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

Univ. of Manchester – Manchester, GANIL – Caen, Yale Univ. – New Haven, The Open Univ. – Milton Keynes

Physical Review C 75 (2007) 051301

07 30 A

<http://hal.in2p3.fr/in2p3-00153268/fr/>

First isomeric quadrupole moment measured in fragmentation reactions: The case of $^{61}\text{Fe}^m(9/2^+)$

Vermeulen N., K. Chamoli S., Daugas J.M., Hass M., Balabanski D.L., Delaroche J.P., De Oliveira-Santos F., Georgiev G., Girod M., Goldring G., Goutte H., Grévy S., Matea I., Morel P., Nara Singh B.S., Penionzkevich Y.-E., Perrot L., Perru O., Péru S., Roig O., Sarazin F., Simpson G.S., Sobolev Y., Stefan I., Stodel C., Yordanov D.T., Neyens G.

IKS – Leuven, WIS – Rehovot, CEA/DIF/DPTA/PN – Bruyères-le-Châtel, Univ. di Camerino – Camerino, INRNE – Sofia, GANIL – Caen, ISOLDE CERN – Genève, CENBG – Gradignan, FLNR JINR – Dubna, Colorado School of Mines – Golden, ILL - Grenoble

Physical Review C 75 (2007) 051302

07 31 A

<http://hal.in2p3.fr/in2p3-00153274/fr/>

Shape coexistence in neutron-deficient krypton isotopes

Clément E., Gôrgen A., Korten W., Bouchez E., Chatillon A., Delaroche J.-P., Girod M., Goutte H., Hürstel A., Le Coz Y., Obertelli A., Péru S., Theissen C., Wilson J.N., Zielinska M., Andreoiu C., Becker F., Butler P.A., Casandjian J.M., Catford W.N., Czosnyka T., De France G., Gerl J., Herzberg R.-D., Iwanicki J., Jenkins D.G., Jones G.D., Napiokowski P.J., Sletten G., Timis C.

CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette, CEA/DIF/DPTA/PN – Bruyères-le-Châtel, HIL Warsaw Univ. – Warsaw, OLL Univ. of Liverpool, GSI – Darmstadt, GANIL Caen, Univ. of Surrey – Guildford, NBI - Copenhagen

Physical Review C 75 (2007) 054313

07 32 A

<http://hal.in2p3.fr/in2p3-00141102/fr/>

Low-lying states and structure of the exotic ^8He via direct reactions on the proton

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

CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette, IPN _ Orsay, GANIL – Caen, Univ. of Ioannina – Ioannina, ASINS – Warsaw, JINR FLNR - Dubna

Nuclear Physics A 788 (2007) 260c-265c

2nd International Conference on collective Motion in Nuclei under extreme Conditions (COMEX 2), Sankt Goar (GER), 20-23 june 2006

07 35 A

<http://hal.in2p3.fr/in2p3-00145704/fr/>

Measurement of the GMR in the unstable ^{56}Ni nucleus using the active target Maya

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

IPN – Orsay, GANIL – Caen, Univ of Liverpool – Liverpool, Univ. of Notre Dame – Notre Dame, CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette, IReS - Strasbourg

Nuclear Physics A 788 (2007) 182c-187c

2nd International Conference on collective Motion in Nuclei under extreme Conditions (COMEX 2), Sankt Goar (GER), 20-23 june 2006

07 36 A

<http://hal.in2p3.fr/in2p3-00147889/fr/>

A review on SHE research at GANIL

Stodel C., Amar N., Anne R., Auger G., Bouriquet B., Casandjian J.-M., Chatillon A., Cee R., Clément E., Dayras R., Dorvaux O., Drouart A., De France G., De Oliveira Santos F., De Turreil R., Grévy S., Hannachi F., Hannappe F., Hauschild K., P. Hessberger F., Hofmann S., Korichi A., Lichtenh%oler R., Lojek K., Lopez-Martens A., Péghaire A., Péter J., Saint-Laurent M.-G., Sosin Z., Stuttge L., Theisen C., C. C. Villari A., Wielec%zko J.-P., Wieloch A.

GANIL – Caen, CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette, LPC – caen, Jagellonian Univ. – Krakow, CSNSM – Orsay, IPHC – Strasbourg, GSI – Darmstadt, IFUSP – Sao Paulo, Univ. Libre de Bruxelles – Bruxelles, Collège de France - Paris

AIP Conference Proceedings 891 (2007) 55-59

Tours Symposium on Nuclear Physics VI: Tours 2006, Tours (FR), 5-8 septembre 2006

07 42 A

<http://hal.in2p3.fr/in2p3-00157203/fr/>

Search for a long lived component in the reaction U+U near the Coulomb barrier

Villari A.C.C., Golabek C., Mittig W., Heinz S., Bhattacharyya S., Boilley D., Dayras R., De France G., Drouart A., Gaudefroy L., Giot L., Marchix A., Maslov V., Morjean M., Mukherjee G., Navin A., Penionzkevich Y., Rejmund F., Rejmund M., Roussel-Chomaz P., Stodel C., Winkler M.

GANIL – Caen, GSI – Darmstadt, Vec Center – Kolkata, CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette, SUBATECH – Nantes, FLNR JINR - Dubna

AIP Conference Proceedings 891 (2007) 60-70

Tours Symposium on Nuclear Physics VI: Tours 2006, Tours (FR), 5-8 septembre 2006

07 43 A

<http://hal.in2p3.fr/in2p3-00118677/fr/>

The SPIRAL 2 project

Lewitowicz M.

GANIL - Caen

AIP Conference Proceedings 891 (2007) 91-98

Tours Symposium on Nuclear Physics VI: Tours 2006, Tours (FR), 5-8 septembre 2006

07 44 A

<http://hal.in2p3.fr/in2p3-00156691/fr/>

New pathways to bypass the ^{15}O waiting point

Stefan I., De Oliveira Santos F., Pellegriti M.G., Dumitru G., Navin A., Angélique J.C., Angélique M., Berthoumieux E., Buta A., Borcea R., Coc A., Daugas J.M., Davinson T., Fadil M., Grévy S., Kiener J., Lefebvre-Schuhl A., Lenhardt M., Lewitowicz M., Negoita F., Pantelica D., Perrot L., Roig O., Saint Laurent M.G., Ray I., Sorlin O., Stanoiu M., Stodel C., Tatischeff V., Thomas J.C.

GANIL – Caen, HH NIPNE – Bucharest, LPC – Caen, CEA-Saclay

DSM/DAPNIA/SPhN - Gif-sur-Yvette, CSNSM – Orsay, CEA/DIF/DPTA/PN – Bruyères-le-Châtel, Univ. of Edinburgh – Edinburgh, IPN – Orsay

AIP Conference Proceedings 891 (2007) 155-163

Tours Symposium on Nuclear Physics VI: Tours 2006, Tours (FR), 5-8 septembre 2006

07 45 A

<http://hal.in2p3.fr/in2p3-00025827/fr/>

Spectroscopy of ^9He , quasi-free scattering $^6\text{He}+^4\text{He}$

Wolski R., S. Golovkov M., V. Grigorenko L., S. Fomichev A., V. Gorshkov A., A. Krupko S., M. Rodin A., I. Sidorchuk S., S. Slepnev R., V. Stepantsov S., M. Ter-Akopian G., A. Korshennikov A., Yu. Nikolskii E., A. Kuzmin E., G. Novatskii B., N. Stepanov D., Fortier S., Roussel P., Mittig W.

FLNR JINR – Dubna, HNINP – Krakow, RIKEN – Saitama, KI – Moscow, IPN – Orsay, GANIL -Caen

AIP Conference Proceedings 891 (2007) 226-236

Tours Symposium on Nuclear Physics VI: Tours 2006, Tours (FR), 5-8 septembre 2006

07 46 A

<http://hal.in2p3.fr/in2p3-00157238/fr/>

Search for resonances in $4n$, ${}^7\text{H}$ and ${}^9\text{He}$ via transfer reactions

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

IPNO – Orsay, CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette, JINR – Dubna, GANIL – Caen, Florida State Univ., SINP – Kolkata, LNS – Catania, INP - Cracow

AIP Conference Proceedings 912 (2007) 3-12

International Symposium on Exotic Nuclei, Khanty-Mansiysk (RU), 17-22 juillet 2006

07 51 A

<http://hal.in2p3.fr/in2p3-00157522/fr/>

Production and Characterization of the ${}^7\text{H}$ Resonance

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

Univ. de Santiago de Compostela - Santiago de Compostela, GANIL – Caen, Univ. of Liverpool, CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette, Univ. of Mainz – Mainz, PNPI – Gatchina, CCLRC – Warrington, HNINP - Krakow

AIP Conference Proceedings 912 (2007) 23-31

International Symposium on Exotic Nuclei, Khanty-Mansiysk (RU), 17-22 juillet 2006

07 52 A

<http://hal.in2p3.fr/in2p3-00158398/fr/>

First Results of a ${}^8\text{He}+d$ Experiment

Golovkov M.S., Grigorenko L.V., Fomichev A.S., Gorshkov V.A., Gorshkov A.V., Krupko S.A., Oganessian Y., Rodin A.M., Sidorchuk S.I., Slepnev R.S., Stepantsov S.V., Ter-Akopian G.M., Wolski R., Korshennikov A.A., Nikolskii E., Roussel-Chomaz P., Mittag W.

FLNR JINR – Dubna, HNINR – Krakow, KI – Moscow, RIKEN – Saaitama, GANIL – Caen

AIP Conference Proceedings 912 (2007) 32-42

International Symposium on Exotic Nuclei, Khanty-Mansiysk (RU), 17-22 juillet 2006

07 53 A

<http://hal.in2p3.fr/in2p3-00158762/fr/>

Three-Body Correlations In ${}^6\text{He}$ Revealed In The Quasi-Free Knockout Reaction ${}^4\text{He}({}^6\text{He},2\alpha)2n$

Sidorchuk S.I., Fomichev A.S., Golovkov M.S., Gorshkov V.A., Gorshkov AV., Krupko SA., Oganessian Y.Ts., Rodin A.M., Slepnev R.S., Stepantsov S.V., Ter-Akopian G.M., Wolski R., Korshennikov A.A., Nikolskii E.Yu., Roussel-Chomaz P., Mittig W.
FLNR JINR – Dubna, KI – Moscow, RIKEN – Saitama, GANIL – Caen

AIP Conference Proceedings 912 (2007) 43-52

International Symposium on Exotic Nuclei, Khanty-Mansiysk (RU), 17-22 juillet 2006
07 54 A

<http://hal.in2p3.fr/in2p3-00158770/fr/>

Production and Beta Half Lives of Nuclei Close To the Nucleosynthesis R-Process Path at N=126

Benlliure J., Caamao M., Casarejos E., Cortina D., Kurtukian T., F. Ordonez M., Pereira J., Becker F., Henzlova D., Jurado B., H. Schmidt K., Yordanov O., Audouin L., Rejmund F.

Univ. de Santiago de Compostela - Santiago de Compostela, GSI – Darmstadt, GANIL - Caen

AIP Conference Proceedings 912 (2007) 315-321

International Symposium on Exotic Nuclei, Khanty-Mansiysk (RU), 17-22 juillet 2006
07 55 A

<http://hal.in2p3.fr/in2p3-00158777/fr/>

S3: the Super Separator Spectrometer for LINAG

Villari A.C.C., Drouart A., A. Nolen J.

GANIL – Caen, CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette, ANL - Argonne

AIP Conference Proceedings 912 (2007) 436-445

International Symposium on Exotic Nuclei, Khanty-Mansiysk (RU), 17-22 juillet 2006
07 56 A

<http://hal.in2p3.fr/in2p3-00118750/fr/>

Indirect study of ${}^{19}\text{Ne}$ states near the ${}^{18}\text{F} + p$ threshold

de Séréville N., Coc A., Angulo C., Assuncao M., Beaumel D., Berthoumieux E., Bouzid B., Cherubini S., Couder M., Demaret P., Santos F. D. O., Figuera P., Fortier S., Gaelens M., Hammache F., Kiener J., Lefebvre-Schuhl A., Labar D., Leleux P., Loiselet M., Ninane A., Ouichaoui S., Ryckewaert G., Smirnova N., Tatischeff V.,

CSNSM – Orsay, CRCIP Univ. Catholique de Louvain – Louvain-la-Neuve, IPN – Orsay, CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette, USTHB – Algiers, GANIL – Caen, LNS INFN – Catania, GSI – Darmstadt, UIMRE Univ. Catholique de Louvain – Louvain-la-Neuve, Univ. of Ghent - Ghent

Nuclear Physics A 791 (2007) 251-266

07 58 A

<http://hal.in2p3.fr/in2p3-00132026/fr/>

Influence of the transfer reactions on $p + {}^6\text{He}$ elastic scattering

Rusek K., Giot L., Roussel-Chomaz P.

Univ de Huelva – Huelva, GSI – Darmstadt, GANIL - Caen

European Physical Journal A 32 (2007) 159-163

07 62 A

<http://hal.in2p3.fr/in2p3-00153254/fr/>

Collapse of the N=28 Shell Closure in ^{42}Si

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

GANIL – Caen, LPC – Caen, INR - Debrecen, IPN – Orsay, NPI – Rez, IAP IFIN-HH – Bucharest-Maguerel, CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette, HISK Univ. Bonn – Bonn, SES Univ. of Paisley – Paisley, FLNR JINR – Dubna, Univ. of Surrey - Guildford

Physical Review Letters 99 (2007) 022503

07 63 A

<http://hal.in2p3.fr/in2p3-00145207/fr/>

What can be learned studying the distribution of the biggest fragment ?

Bonnet B., Gulminelli F., Borderie B., Le Neindre N., Rivet M.F.

IPN – Orsay, GANIL – Caen, LPC – Caen

Ricerca Scientifica ed Educazione Permanente Suppl. N. 127 (2007) 215-222

XLV International Winter Meeting on Nuclear Physics, Bormio (II), 15-20 janvier 2007

07 68 A

<http://hal.archives-ouvertes.fr/hal-00141043/fr/>

Isotopic effects in nuclear reactions at relativistic energies

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

GSI – Darmstadt, LNS_INFN – Catania, IPN – Orsay, SIP Jagiellonian Univ. – Krakow, ISF INFN – Milano, INR – Moscow, CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette, GANIL – Caen, NINP – Krakow, DPA NSCL_MSU – East Lansing, SINS - Warsaw

Ricerca Scientifica ed Educazione Permanente Suppl. N. 127 (2007) 223-232

XLV International Winter Meeting on Nuclear Physics, Bormio (II), 15-20 janvier 2007

07 69 A

<http://hal.in2p3.fr/in2p3-00165102>

Mass measurement and isoscaling in $^{124}\text{Sn}+\text{Sn}$ and $^{107}\text{Sn}+\text{Sn}$ reactions at 600 AMeV

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

GSI- Darmstadt, IPN – Orsay, CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette, GANIL – Caen, LNS_INFN – Catania, SINS – Warsaw, NINP – Krakow, SIP Jagiellonian Univ. – Krakow, ISF INFN – Milano, INR – Moscow, DPA NSCL MSU – East Lansing

Ricerca Scientifica ed Educazione Permanente Suppl. N. 127 (2007) 233-242

XLV International Winter Meeting on Nuclear Physics, Bormio (II), 15-20 janvier 2007

07 70 A

<http://hal.in2p3.fr/in2p3-00165267>

The decay of proton-rich nuclei in the mass A = 36-56 region

Dossat C., Adimi N., Aksouh F., Becker F., Bey A., Blank B., Borcea C., Borcea R., Boston A., Caamano M., Canchel G., Chartier M., Cortina D., Czajkowski S., De France G., De Oliveira Santos F., Fleury A., Georgiev G., Giovinazzo J., Grévy S., Grzywacz R., Hellström M., Honma M., Janas Z., Karamanis D., Kurcewicz J., Lewitowicz M., Lopez Jiménez M.J., Mazzocchi C., Matea I., Maslov V., Mayet P., Moore C., Pfützner M., Pravikoff M.S., Stanoiu M., Stefan I., Thomas J.C.

CENBG – Gradignan, USTHB – Alger, IKS – Leuven, GANIL – Caen, NIPNE – Bucharest-Margurele, IPN – Orsay, OLL – Liverpool, DFP Univ. Santiago – Santiago de Compostela, IEP – Warsaw, GSI – Darmstadt, CMS Univ. of Aizu - Fukushima

Nuclear Physics A 792 (2007) 18-86

07 73 A

<http://hal.in2p3.fr/in2p3-00168314/fr/>

Low-spin collective behavior in the transitional nuclei ^{86,88}Mo

Andgren K., Ganioglu E., Cederwall B., Wyss R., Bhattacharyya S., R. Brown J., De Angelis G., De France G., Dombradi Z., Gal J., Hadinia B., Johnson A., Johnston-Theasby F., Jungclaus A., Khaplanov A., Kownacki J., Lagergren K., La Rana G., Molnar J., Moro R., S. Nara Singh B., Nyberg J., Sandzelius M., Scheurer J.-N., Sletten G., Sohler D., Timar J., Trotta M., J. Valiente-Dobun J., Vardaci E., Wadsworth R., Williams S.

Physical Review C 76 (2007) 014307

07 74 A

<http://hal.in2p3.fr/in2p3-00168353/fr/>

Resonance state in ⁷H

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

DPP Univ. de Santiago de Compostela - Santiago de Compostela, GANIL – Caen, OLL Univ. of Liverpool, CEA-Saclay DSM/DAPNIA - Gif-sur-Yvette, INC Univ. of Mainz – Mainz, PNPI – Gatchina, CCLRC DL – Warrington, HNINP - Krakow

Physical Review Letters 99 (2007) 062502

07 75 A

<http://hal.in2p3.fr/in2p3-00130192/fr/>

A preliminary study on ternary fission in the ¹²⁴Sn + ⁶⁴Ni reaction at 35 MeV/A

Agodi C., De Filippo E., Pagano A., Piasecki E., Russotto P., Amorini F., Anzalone A., Auditore L., Baran V., Berceanu I., Blicharska J., Brzychczyk J., Borderie B., Bougault R., Bruno M., Cardella G., Cavallaro S., Chatterjee M.B., Chbihi A., Colonna M., D'Agostino M., Dayras R., Di Toro M., Frankland J., Galichet E., Gawlikowicz W., Geraci E., Giustolisi F., Grzeszczuk A., Guazzoni P., Guinet D., Kowalski S., La Guidara E., Lanzalone G., Lanzano G., Le Neindre N., Maiolino C., Majka Z., Papa M., Petrovici M., Pirrone S., Planeta R., Politi G., Pop A., Porto F., Rivet M.F., Rosato E., Rizzo F., Schmidt K., Siwek-Wilczynska K., Skwira I., Steckmeyer J.C., Swiderski L., Trifiro A., Trimarchi M., Vannini G., Vigilante M., Wieleczko J.P., Wilczynski J., Zetta L., Zipper W.

INFN LNS – Catania, INFN Sez Catania – Catania, Univ. Warsaw – Warsaw, Univ. Catania – Catania, INFN – Messina, IPNE – Bucharest, Univ. Silesia – Katowice, Jagellonian Univ. – Krakow, LPC – Caen, INFN Sez. Bologna – Bologna, Saha INP – Calcutta, GANIL – Caen, CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette, INFN Sez. Milano – Milano, INFN Sez. Napoli – Napoli, IPN – Lyon, SINS - Warsaw

Ricerca Scientifica ed Educazione Permanente Suppl. N. 127 (2007) 243-248

XLV International Winter Meeting on Nuclear Physics Bormio (II), 15-20 janvier 2007
07 77 A

<http://hal.in2p3.fr/in2p3-00167695>

Shell evolution and the $N = 34$ “magic number”

Rejmund M., Bhattacharyya S., Navin A., Mittig W., Gaudefroy L., Gelin M., Mukherjee G., Rejmund F., Roussel-Chomaz P., Theisen C.

GANIL – Caen, CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette

Physical Review C 76 (2007) 021304(R)

07 77 A

<http://hal.in2p3.fr/in2p3-00118161/fr/>

New insight into the low-energy ^9He spectrum

Golovkov M.S., Grigorenko L.V., Fomichev A.S., Gorshkov A.V., Gorshkov V.A., Krupko S.A., Oganessian Y., Rodin A.M., Sidorchuk S.I., Slepnev R.S., Stepantsov S.V., Ter-Akopian G.M., Wolski R., Korshennikov A.A., Nikolskii E., Kuzmin V.A., Novatskii B.G., Stepanov D.N., Fortier S., Roussel-Chomaz P., Mittig W.

FLNR JINR – Dubna, HNINP – Krakow, RIKEN – Saitama, RRC KI – Kurchatov, GANIL - Caen

Physical Review C 76 (2007) 021605(R)

07 80 A

<http://hal.in2p3.fr/in2p3-00090280/fr/>

Dynamical multi-breakup processes in the $^{124}\text{Sn}+^{64}\text{Ni}$ system at 35 MeV/nucleon

Papa M., Amorini F., Anzalone A., Auditore L., Baran V., Berceanu I., Blicharska J., Brzychczyk J., Bonasera A., Borderie B., Bougault R., Cardella G., Cavallaro S., B. Chatterjee M., Chbihi A., Colonna M., Dayras R., De Filippo E., Di Toro M., Frankland J., Galichet E., Gawlikowicz W., Geraci E., Giuliani G., Giustolisi F., Grzeszczuk A., Guazzoni P., Guinet D., Iacono-Manno M., Kowalski S., La Guidara E., Lanzalone G., Lanzano G., Maiolino C., Majka Z., Le Neindre N., Pagano A., Petrovici M., Piasecki E., Pirrone S., Planeta R., Politi G., Pop A., Porto F., Rizzo F., Rosato E., Russo S., Russotto P., Sassi M., Schmidt K., Siwek-Wilczynska K., Skwira I., Sochocka A., Swiwiderski L., Trifiro A., Trimarchi M., Vannini G., Verde G., Vigilante M., P. Wieleczko J., Wilczynski J., Zetta L., Zipper W.

INFN – Catania, INFN LNS – Catania, INFN – Messina, IPNE – Bucharest, IP Univ. of Silesia - Katowice, SIP Jagellonian Univ. – Cracow, IPN – Orsay, LPC – Caen, INFN – Bologna, Saha INP – Kolkata, GANIL – Caen, CEA-Saclay DSM/DAPNIA - Gif-sur-Yvette, INFN – Milano, IPN – Lyon, IEP – Warsaw, INFN – Napoli, SINS – Warsaw, HIL Warsaw Univ. - Warsaw

Physical Review C 75 (2007) 054616

07 85 A

<http://hal.in2p3.fr/in2p3-00169801/fr/>

First direct observation of two protons in the decay of ^{45}Fe with a Time-Projection Chamber

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

Physical Review Letters 99 (2007) 102501

CENBG – Gradignan, GANIL, DSM/CEA, IN2P3/CNRS – Caen, CEA Saclay DAPNIA – Gif-sur-Yvette

07 86 A

<http://hal.in2p3.fr/in2p3-00135543/fr/>

Band structure extending to very high spin in ^{126}Xe

Rønn Hansen C., Sletten G., Hagemann G.B., Herskind B., Jensen D.R.

Bringel P., Engelhardt C., Hübner H., Neußer-Neffgen A., Singh A.K., Carpenter M.P., Janssens R.V.F., Khoo T.L., Lauritsen T., Bednarczyk P., Byrski T., Curien D., Benzoni G., Bracco A., Camera F., Leoni S., Clark R.M., Fallon P., Korichi A., Roccoz J., Maj A., Wilson J.N., Lisle J.C., Steinhardt T., Thelen O., Ødegard S.W

NBI – Copenhagen, GANIL – Caen, HISK univ. Bonn – Bonn, ANL – Argonne, IPHC-DRS – Strasbourg, INFN – Milano, LBNL – Berkeley, CSNSM – Orsay, NINP – Krakow, IPN – Orsay, Univ. of Manchester – Manchester, Univ. Köln – Köln, Univ. of Oslo – Oslo

Physical Review C 76 (2007) 034311

07 87 A

<http://hal.in2p3.fr/in2p3-00141618/fr/>

The LPCTrap facility for in-trap decay experiments

Rodriguez D., Ban G., Durand D., Duval F., Flécahrd X., Herbane M., Liénard E., Mauger F., Méry A., Naviliat-Cunci O., Thomas J.-C.

LPC – Caen, GANIL – Caen

Hyperfine Interactions 174 (2007) 15-20

07 88 A

Trapped Charged Particles and Fundamental Physics (TCP06), Parksville : Canada (2006)

<http://hal.in2p3.fr/in2p3-00099878/fr/>

^{26}Al beam production by a solid state laser ion source at TRIUMF

Achtzehn T., Lassen J., Bricault P., Albers D., Cocolios T.E., Dombisky M., Hanemaayer V., Lavoie P., Lecesne N., Pearson M.R., Prime E.J., Wendt K.D.A.

TRIUMF – Vancouver, IKS – Leuven, GANIL – Caen, J. Gutenberg Univ. - Mainz

Hyperfine Interactions 174 (2007) 27-32

Trapped Charged Particles and Fundamental Physics (TCP06), Parksville : Canada (2006)

07 89 A

<http://hal.in2p3.fr/in2p3-00174807/fr/>

MAYA: an active-target detector for binary reactions with exotic beams

Demonchy C.E., Caamano M., Wang H., Mittif W., Roussel-Chomaz P., Savajols H., Chartier M., Cortina-Gil D., Fomochev A., Frémont G., Gangnant P., Gillibert A., Giot L., Golovkov M.S., Jurado. B., Libin J.F., Obertelli A., Pollaco E., Rodin A., Spitaels C., Stepanov S., Ter-Akopian G., Wolski R.

GANIL- Caen, Univ. de Santiago de Compostela - Santiago de Compostela, OLL – Liverpool, FLNR/JINR Dubna, CEA/DSM DAPNIA/SPhN – Gif-sur-Yvette, HNINP - Krakow

NIM A 583 (2007) 341-349

07 92 A

<http://hal.in2p3.fr/in2p3-00176117/fr/>

Coulomb Excitation of Neutron-Rich Zn Isotopes: First Observation of the 2^+_1 State in ^{80}Zn

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

IKS KU – Leuven, CEA Saclay DAPNIA – Gif-sur-Yvette, LMU – München, TUM – Graching, MPI- Heidelberg, IKU – Köln, ISOLDE CERN – Genève, Univ. of Edinburgh – Edinburgh, Univ. of Lund – Lund, PNPI – Gatchina, CSNSM – Orsay, VSS Univ. Gent – Gent, IP JGUM – Mainz, IPN – Orsay, HIL – Warsaw, GSI – Darmstadt, ILL – Grenoble, IKTU – Darmstadt, Univ. of Copenhagen – Copenhagen, CENBG – Gradignan, GANIL – Caen, LNL - Legnaro

Physical Review Letters 99 (2007) 142501

07 97 A

<http://hal.in2p3.fr/in2p3-00176426/fr/>

Nuclear break-up of ^{11}Be

Lima V., Scarpaci J.A., Lacroix D., Blumenfeld Y., Bourgeois C., Chabot M., Chomaz Ph., Désesquelle P., Duflot V., Duprat J., Fallot M., Fracaria N., Grévy S., Guillemaud-Mueller D., Roussel-Chomaz P., Savajols H., Sorlin O.

IPN – Orsay, LPC – Caen, GANIL – Caen

Nuclear Physics A 795 (2007) 1-18

07 99 A

<http://hal.in2p3.fr/in2p3-00171746/fr/>

Yield scaling, size hierarchy and fluctuations of observables in fragmentation of excited heavy nuclei (INDRA and ALADIN Collaborations)

Le Neindre N, E. Bonnet, J.P. Wieleczko, B. Borderie, F. Gulminelli, M.F. Rivet, R. Bougault, A. Chbihi, R. Dayras, J.D. Frankland, E. Galichet, D. Guinet, P. Lantesse, O. Lopez, J. Lukasik, D. Mercier, J. Moisan, M. Parlog, E. Rosato, R. Roy, C. Schwarz, C. Sfienti, B. Tamain, W. Trautmann, A. Trzcinski, K. Turzo, E. Vient, M. Vigilante, B. Zwiaglinski

IPN – Orsay, GANIL – Caen, LPC – Caen, CEA Saclay DAPNIA – Gif-sur-Yvette, CNAM – Paris, IPN – Villeurbanne, GSI – Darmstadt, INP – Krakow, LPN Univ. Laval – Québec, NIPNE – Bucharest-Magurele, DSFS INFN – Napoli, ASINS - Warsaw

Nuclear Physics A 795 (2007) 47-69

07 100 A

<http://hal.in2p3.fr/in2p3-00171092/fr/>

Low-energy states of $^{81}_{31}\text{Ga}_{50}$: Proton structure of the nuclei close to ^{78}Ni

D. Verney, F. Ibrahim, C. Bourgeois, S. Essabaa, S. Galès, Gaudefroy L., Guillemaud-Mueller D., Hammache F., Lau C., Le Blanc F., Mueller A.C., Perru O., Pougheon F., Roussièrè B., Sauvage J., Sorlon O.

IPN – Orsay, GANIL – Caen

Physical Review C 76 (2007) 054312

07 105 A

<http://hal.in2p3.fr/in2p3-00126837/fr/>

Erratum: β decay of ^{31}Mg : Extending the “island of inversion” [Phys. Rev. C 72, 044314 (2005)]

F. Maréchal, D. L. Balabanski, D. Borremans, J.-M. Daugas, F. De Oliveira Santos et al

Physical Review C 76 (2007) 059902(E)

07 106 N

<http://hal.in2p3.fr/in2p3-00194097/fr/>

Nuclear charge radius of ^8He

Mueller P., Sulai A.I, Villari A.C.C., Alcantara-Nunez J.A., Alves-Condé R., Bailey K., Drake G.W.F., Dubois M., Eléon C., Gaubert G., Holt R.J., Janssens R.V.F., Lecesne N., Lu Z.T., O’Connor T.P., Saint Laurent M._G., Thomas J.C., Wang L.B.

ANLR –Argonne, University of Chicago – Chicago, GANIL – Caen, University of Windsor – Windsor, LANL – Los Alamos

Physical Review Letters 99 (2007) 252501

07 112 A

<http://hal.in2p3.fr/in2p3-00202461/fr/>

Measurement of the complete nuclide production and kinetic energies of the system $^{136}\text{Xe}+\text{hydrogen}$ at 1 GeV per nucleon

P. Napolitani, K.-H. Schmidt, L. Tassan-Got, P. Armbruster, T. Enqvist, A. Heinz, V. Henzl, D. Henzlova, A. Kelic, R. Pleskac, M.V. Ricciardi, C. Schmitt, O. Yordanov, L. Audouin, M. Bernas, A. Lafriashk, F. Rejmund, C. Stephan, J. Benlliure, E. Casarejos, M. Fernandez Ordonez, J. Pereira, A. Boudard, B. Fernandez, S. Leray, C. Villagrasa, C. Volant
GSI – Darmstadt, IPN – Orsay, GANIL – Caen, DAPNIA/SPhN DSM-CEA – Gif-sur-Yvette

Physical Review C 76 (2007) 064609

07 113 A

<http://hal.in2p3.fr/in2p3-00152027/fr/>

Production of heavy neutron-rich nuclei "south" of lead

J. Benlliure, T. Kurtukian-Nieto, L. Audouin, B. Blank, F. Becker, E. Casarejos, D. Cortina, M. Fernández-Ordóñez, J. Giovinazzo, D. Henzlova, B. Jurado, J. Pereira, F. Rejmund, K.-H. Schmidt, O. Yordanov

The European Physical Journal Special Topics (150) 309-310 (2007)

Seventh International Conference on Radioactive Nuclear Beams (RNB7), Cortina d'Ampezzo (2006)

<http://hal.in2p3.fr/in2p3-00200514>

Recent developments and on-line tests of uranium carbide targets for production of nuclides far from stability

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

The European Physical Journal Special Topics (150) 297-300 (2007)

Seventh International Conference on Radioactive Nuclear Beams (RNB7), Cortina d'Ampezzo (2006)

<http://hal.in2p3.fr/in2p3-00200502>

Study of N = 16 for Ne isotopes

A. Gillibert, A. Obertelli, N. Alamanos, M. Alvarez, F. Auger, R. Dayras, A. Drouart, G. De France, B. Jurado, N. Keeley, V. Lapoux, W. Mittig, X. Mougeot, L. Nalpas, A. Pakou, N. Patronis, E. Pollacco, F. Rejmund, M. Rejmund, P. Roussel-Chomaz, H. Savajols, F. Skaza, Ch. Theisen

The European Physical Journal Special Topics (150) 161-163 (2007)

Seventh International Conference on Radioactive Nuclear Beams (RNB7), Cortina d'Ampezzo (2006)

<http://hal.in2p3.fr/in2p3-00200489>

The "island of inversion" from a nuclear moments perspective and the g factor of ^{35}Si

G. Neyens, P. Himpe, D.L. Balabanski, P. Morel, L. Perrot, M. De Rydt, I. Stefan, C. Stodel, J.C. Thomas, N. Vermeulen, D.T. Yordanov

The European Physical Journal Special Topics (150) 149-154 (2007)

Seventh International Conference on Radioactive Nuclear Beams (RNB7), Cortina d'Ampezzo (2006)

<http://hal.in2p3.fr/in2p3-00200484>

Shape coexistence in ^{74}Kr and ^{76}Kr

A. Görgen, E. Clément, W. Korten, E. Bouchez, A. Chatillon, A. Hürstel, Y. Le Coz, Ch. Theisen, J.N. Wilson, M. Zielinska, C. Andreoiu, F. Becker, P. Butler, J.M. Casandjian, W.N. Catford, T. Czosnyka, G. De France, J. Gerl, R.-D. Herzberg, J. Iwanicki, D.G. Jenkins, G.D. Jones, P.J. Napiorkowski, G. Sletten, C. Timis

The European Physical Journal Special Topics (150) 117-120 (2007)

Seventh International Conference on Radioactive Nuclear Beams (RNB7), Cortina d'Ampezzo (2006)

<http://hal.in2p3.fr/in2p3-00179714>

Spectroscopy of neutron-deficient nuclei around ^{36}Ca

A. Bürger, M. Stanoiu, F. Azaiez, Zs. Dombrádi, A. Algora, A. Al-Khatib, B. Bastin, G. Benzoni, R. Borcea, Ch. Bourgeois, P. Bringel, E. Clément, J.-C. Dalouzy, Z. Dlouhý, A. Drouart, C. Engelhardt, S. Franchoo, Zs. Fülöp, A. Görgen, S. Grévy, H. Hübel, F. Ibrahim, W. Korten, J. Mrázek, A. Navin, F. Rotaru, P. Roussel-Chomaz, M.-G. Saint-Laurent, G. Sletten, D. Sohler, O. Sorlin, Ch. Theisen, C. Timis, D. Verney, S. Williams

The European Physical Journal Special Topics (150) 89-91 (2007)

Seventh International Conference on Radioactive Nuclear Beams (RNB7), Cortina d'Ampezzo (2006)

<http://hal.in2p3.fr/in2p3-00199974>

In-beam gamma spectroscopy using DIC with a radioactive Ne beam

G. Benzoni, F. Azaiez, S. Leoni, S. Battacharyya, R. Borcea, A. Bracco, L. Corradi, D. Curien, G. De France, Zs. Dombrádi, E. Fioretto, S. Franchoo, S. Grevy, F. Ibrahim, S. Iulian, G. Mukherjee, A. Navin, G. Pollarolo, N. Redon, P.H. Regan, M. Rejmund, C. Schmitt, G. Sletten, D. Sohler, M. Stanoiu, S. Szilner, D. Verney

The European Physical Journal Special Topics (150) 83-86 (2007)

Seventh International Conference on Radioactive Nuclear Beams (RNB7), Cortina d'Ampezzo (2006)

<http://hal.in2p3.fr/in2p3-00199961>

Neutron excess nuclei of hydrogen and helium at ACCULINNA

G.M. Ter-Akopian, A.S. Fomichev, M.S. Golovkov, L.V. Grigorenko, S.A. Krupko, Yu.Ts. Oganessian, A.M. Rodin, S.I. Sidorchuk, R.S. Slepnev, S.V. Stepantsov, R. Wolski, A.A. Korshennikov, E.Yu. Nikolskii, P. Roussel-Chomaz, W. Mittig, V.A. Kuzmin, B.G. Novatskii, D.N. Stepanov

The European Physical Journal Special Topics (150) 61-66 (2007)

Seventh International Conference on Radioactive Nuclear Beams (RNB7), Cortina d'Ampezzo (2006)

<http://hal.in2p3.fr/in2p3-00199706>

Properties of low-lying ^9He state

M.S. Golovkov, L.V. Grigorenko, A.S. Fomichev, A.V. Gorshkov, V.A. Gorshkov, S.A. Krupko, Yu.Ts. Oganessian, A.M. Rodin, S.I. Sidorchuk, R.S. Slepnev, S.V. Stepantsov, G.M. Ter-Akopian, R. Wolski, A.A. Korshennikov, E.Yu. Nikolskii, V.A. Kuzmin, B.G. Novatskii, D.N. Stepanov, S. Fortier, P. Roussel-Chomaz, W. Mittig

The European Physical Journal Special Topics (150) 23-26 (2007)

Seventh International Conference on Radioactive Nuclear Beams (RNB7), Cortina d'Ampezzo (2006)

<http://hal.in2p3.fr/in2p3-00199415/fr/>

The search for ${}^7\text{H}$

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

The European Physical Journal Special Topics (150) 9-12 (2007)

Seventh International Conference on Radioactive Nuclear Beams (RNB7), Cortina d'Ampezzo (2006)

<http://hal.in2p3.fr/in2p3-00198828/fr/>

PHYSIQUE THEORIQUE

Ising Analogue to Compact-Star Matter

Napolitani P., Chomaz Ph., Gulminelli F., Hasnaoui K. H. O.

GANIL – Caen, LPC - Caen

Physical Review Letters 98 (2007)131102

07 05 T

<http://hal.in2p3.fr/in2p3-00098157>

Dynamics of massive systems and synthesis of superheavy elements

Abe Y., Marchix A., Shen C., Yilmaz B., Kossenko G., Boilley D., Giraud B.G.

RCNP – Osaka University – Osaka, GANIL – Caen, CTNP Nat. Lab. of HIC –

Lanzhou, Physics Dep. Ankara Univ. – Ankara, Dep. of Physics Omsk Univ. –

Omsk, SPT CEA-Saclay – Gif-sur-Yvette

International Journal of Modern Physics E 16 (2007) 491-501

13th Workshop on Nuclear Physics « Marie and Pierre Curie », Kazimierz Dolny (PL), 27 septembre 2007

07 09 T

<http://hal.in2p3.fr/in2p3-00112874>

Isospin-dependent clusterization of neutron-star matter

Ducoin C., Chomaz P., Gulminelli F.

GANIL –Caen, LPC - Caen

Nuclear Physics A 789 (2007) 403-425

07 39 T

<http://hal.archives-ouvertes.fr/hal-00119539>

Anomalous thermodynamics and phase transitions in neutron star matter

Ducoin C., Hasnaoui K.H.O., Napolitani P., Chomaz P., Gulminelli F.

LPC – Caen, GANIL – Caen

Physical Review C 75 (2007) 065805

07 57 AP

<http://hal.in2p3.fr/in2p3-00024440>

Isospin fractionation : Equilibrium versus spinodal decomposition

Ducoin C., Chomaz Ph, Gulminelli

GANIL DSM-CEA/IN2P3-CNRS – Caen, LPC IN2P3- CNRS/Ensicaen et Université – Caen

Nuclear Physics A 781 (2007) 407-423

07 01 T

<http://hal.archives-ouvertes.fr/hal-00080648>

Threshold effects in multichannel coupling and spectroscopic factors in exotic nuclei

Michel N., Nazarewicz W., Ploszajczak M.

Dep. of Physics and Astronomy, Univ. of Tennessee – Knoxville, Physics Div. ORNL - Oak Ridge, Joint Ins. for Heavy-Ion Res. - Oak Ridge, GANIL - Caen

Physical Review C 75 (2007) 031301(R)

07 04 T

<http://hal.in2p3.fr/in2p3-00130181>

Phase Transitions in the Configuration Mixed Interacting Boson Model: U(5)–O(6) Mixing

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

Univ. of Gent – Gent, GANIL - Caen

Acta Physica Polonica B Vol. 38, No. 4, (2007) 1525

Zakopane Conférence on Nuclear Physics, Zakopane (POL), 4 septembre 2006

07 20 T

<http://hal.in2p3.fr/in2p3-00142036>

Thermodynamics of compact-star matter within and ising approach

Chomaz P., Ducoin C., Gulminelli F., Hasnaoui K.H.O., Napolitani P.

GANIL – Caen, LPC - Caen

Nuclear Physics A 787 (2007) 603c-610c

Ninth International Conférence on Nucleus-Nucleus Collisions (NN2006)

Rio de Janeiro (BRE), 28 août 2006

07 23 T

<http://hal.in2p3.fr/in2p3-00102800>

Shell structure of exotic nuclei

Dobaczewski J., Michel N., Nazarewicz W., Ploszajczak M., Rotureau J.

Warsaw Univ. – Warsaw, Univ. of Tennessee – Knoxville, ORNL – Oak Ridge, GANIL - Caen

Progress in Particle and Nuclear Physics 59 (2007) 432-445

International Workshop on Nuclear Physics 28th Course Radioactive Beams, Nuclear Dynamics and Astrophysics, Erice (IT), 16-24 septembre 2006

07 29 T

<http://hal.in2p3.fr/in2p3-00125365>

Triple giant resonance excitations : a microscopic approach

Lanza E.G., Andrés M.V., Catara F., Chomaz P., Fallot M., Scarpaci J.A.

INFN – Catania, Univ. de Sevilla - Sevilla, GANIL – Caen, Subatech – Nantes, IPN – Orsay

Nuclear Physics A 788 (2007) 112c-117c

2nd International Conférence on collective Motion in Nuclei under extreme Conditions (COMEX 2), Sankt Goar (GER), 20-23 june 2006
07 34 T

IBM-1 description of the fission products ^{108,110,112}Ru

Stefanescu I., Gelberg A., Jolie J., Van Isacker P., Von Brentano P., Luo X.X., Zhu S.J., rasmussen J.O., Hamilton J.H., Ramayya A.V., Che X.L.

IKS – Leuven, Univ. Köln – Köln, GANIL –Caen, Vanderbilt Univ. – Vanderbilt, LBNL – Berkeley, Tsinghua Univ. – Beijing, HH NIPNE - Bucharest

Nuclear Physics A 789 (2007) 125-141

07 37 T

<http://hal.in2p3.fr/in2p3-00153567>

Criticality in the configuration-mixed interacting boson model : (1) U(5) - Q(χ) . Q(χ) mixing

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

DSRP – Gent, GANIL – Caen, ISOLDE CERN - Genève

Nuclear Physics A 789 (2007) 164-181

07 38 T

<http://hal.in2p3.fr/in2p3-00153899>

Nuclear mass forecasting: can observed pattern determine mass values?

Frank A., Lopez Vieyra J. C., Barea J., Hirsch J. G., Velazquez V., Van Isacker P.

UNAM – Mexico, GANIL – Caen

AIP Conference Proceedings 884 (2007) 61-69

VI Latin American Symposium on Nuclear Physics and Applications, Iguazu (ARG), 3-7 october 2005

07 47 T

<http://hal.in2p3.fr/in2p3-00157587>

An upper limit to ground state energy fluctuations in nuclear masses

Hirsch J.G., Velazquez V., Frank A., Barea J., Van Isacker P., Zuker P.

UNAM – Mexico, GANIL – Caen, IReS - Strasbourg

AIP Conference Proceedings 884 (2007) 153-157

VI Latin American Symposium on Nuclear Physics and Applications

Iguazu (ARG), 3-7 october 2005

07 48 T

<http://hal.in2p3.fr/in2p3-00157316>

From multifragmentation to supernovae and neutron stars

Chomaz P., Gulminelli F., Ducoin C., Napolitani P., Hasnaoui K.

GANIL – Caen, LPC - Caen

AIP Conference Proceedings 884 (2007) 318-326

VI Latin American Symposium on Nuclear Physics and Applications, Iguazu (ARG), 3-7 october 2005

07 49 T

<http://hal.in2p3.fr/in2p3-00025181>

Information theory of open fragmenting systems

Gulminelli F., Chomaz P., Juillet O., Ison M.J., Dorso C.O.
LPC – Caen, GANIL – Caen, Univ. de Buenos Aires – Buenos Aires
AIP Conference Proceedings 884 (2007) 332-339
VI Latin American Symposium on Nuclear Physics and Applications, Iguazu (ARG),
3-7 october 2005
07 50 T
<http://hal.in2p3.fr/in2p3-00025192>

The symmetry energy in nuclei and in nuclear matter
Dieperink A.E.L., Van Isacker P.
KVI – Groningen, GANIL – Caen
Eur. Phys. J. A 32 (2007) 11
07 67 T
<http://hal.in2p3.fr/in2p3-00164866>

A new formula for the saddle-to-scission time
Boilley D., Marchix A., Jurado B., Schmidt K.-H
GANIL – Caen, CENBG – Gradignan, GSI – Darmstadt
Eur. Phys. J. A 33 (2007) 47-52
07 73 T
<http://hal.in2p3.fr/in2p3-00151809>

Fusion process studied with a preequilibrium giant dipole resonance in time-dependent Hartree-Fock theory
Simenel C., Chomaz P., de France G.
DAPNIA, GANIL – Caen
Physical Review C 76 (2007) 024609
07 78 T
<http://hal.archives-ouvertes.fr/hal-00139795>

Application of cluster supersymmetry to nuclei with mass numbers $A = 20, 19$ and 18
Lévai G., Cseh J., Van Isacker P.
INRHAS – Debrecen, GANIL - Caen
J. Physics G 34 (2007) 1729-1756
07 79 T
<http://hal.in2p3.fr/in2p3-00168653>

Continuum coupling and single-nucleon overlap integrals
Michel N., Nazarewics W., Ploszajczak M.
DPA Univ. of Tennessee – Knoxville, ORNL – Oak Ridge, Kyoto Univ – Kyoto, ITP Univ. of Warsaw – Warsaw, GANIL – Caen
Nuclear Physics A 794 (2007) 29-46
07 91 T
<http://hal.in2p3.fr/in2p3-00160461>

Low-density expansion and isospin dependence of nuclear energy functional: Comparison between relativistic and Skyrme model
Brito L., Chomaz Ph., Menezes D.P., Providência C.
Physical Review C 76 (2007) 044316
07 101 T
<http://hal.in2p3.fr/in2p3-00185015>

Bose-Einstein condensates of atoms with arbitrary spin

Van Isacker P., Heinze S.

GANIL – Caen, INP Univ. of Cologne – Cologne

J. Phys. A : Math. Theor. 40 (2007) 14811-14817

07 130 T

<http://hal.in2p3.fr/in2p3-00183262>

Masses of atomic nuclei far from stability

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

The European Physical Journal Special Topics (150) 189-192 (2007)

Seventh International Conference on Radioactive Nuclear Beams (RNB7), Cortina d'Ampezzo (2006)

<http://hal.in2p3.fr/in2p3-00200491>

INSTRUMENTATION ET ACCELERATEUR

Status report of the MS-ECRIS construction

Ciavola G.

High Energy and Nuclear Physics-Chinese Edition 31 (2007) 13-17 Suppl.1

17th International Workshop on ECR Ion Sources and Their Applications : ECRIS 06

Lanzhou (CHI), 17-21 septembre 2006

<http://hal.in2p3.fr/in2p3-00176882>

Status report on organo-metallic beams at GANIL

Lehérissier P.

High Energy and Nuclear Physics-Chinese Edition 31 (2007) 85-89 Suppl.1

17th International Workshop on ECR Ion Sources and Their Applications : ECRIS 06

Lanzhou (CHI), 17-21 septembre 2006

<http://hal.in2p3.fr/in2p3-00173789>

ECR ion sources for radioactive ion beam production

Jardin P.

High Energy and Nuclear Physics-Chinese Edition 31 (2007) 206-210 Suppl.1

17th International Workshop on ECR Ion Sources and Their Applications : ECRIS 06

Lanzhou (CHI), 17-21 septembre 2006

<http://hal.in2p3.fr/in2p3-00151882>

Studies and design of a dual beam axial injection system using H⁻ cusp source and ECR ion source for the IBA C70 cyclotron

Bieth C.

High Energy and Nuclear Physics-Chinese Edition 31 (2007) 223-225 Suppl.1

17th International Workshop on ECR Ion Sources and Their Applications : ECRIS 06
Lanzhou (CHI), 17-21 septembre 2006

<http://hal.in2p3.fr/in2p3-00176885>

Status of the hadrontherapy projects in Europe

Lagniel J.M. *GANIL – Caen*

Proceedings of PAC07 (2007) 127

22nd Particle Accelerator Conference 07 (PAC'07), Albuquerque (USA), 25-29 juin 2007
07 81 C

<http://hal.in2p3.fr/in2p3-00169261>

A single bunch selector for the next low β continuous wave heavy ion beam

Le Dem G., Di Giacomo M.

GANIL – Caen

Proceedings of PAC07 (2007) 158

22nd Particle Accelerator Conference 07 (PAC'07), Albuquerque (USA), 25-29 juin 2007
07 82 C

<http://hal.in2p3.fr/in2p3-00169268>

Room temperature structure development for high-current applications

Ferdinand R.

GANIL – Caen

Proceedings of PAC07 (2007) 2564

22nd Particle Accelerator Conference 07 (PAC'07), Albuquerque (USA), 25-29 juin 2007
07 83 C

<http://hal.in2p3.fr/in2p3-00169245>

Status of the cryomodule for the SPIRAL 2 superconducting LINAC

Bosland P., Bernaudin P.E., Devanz G., Thomas-Madec C., Pérolat A., Sauganc H., Olry G., Martinet G., Lutton F., Blivet S., Longuevergne D., Gomez-Martinez Y., Vezzu F., Fruneau M., Junquera T., Ferdinand R.

CEA – Saclay, IPN – Orsay, LPSC – Grenoble, GANIL - Caen

Proceedings of PAC07 (2007) 2578

22nd Particle Accelerator Conference 07 (PAC'07), Albuquerque (USA), 25-29 juin 2007
07 84 C

<http://hal.in2p3.fr/in2p3-00169255>

First steps towards the new SPIRAL2 project control system

E. Lécorché, S. Cuzon, D. Touchard, D. Bogard, F. Gougnaud, J.F. Gournay, Y. Lussignol, P. Mattei, S. Avner, P. Graehling, J. Hosselet, C. Maazouzi, C. Olivetto

Proceedings of ICALEPCS07, Knoxville, Tennessee, USA, (2007) 175-177

07 132 C

<http://hal.in2p3.fr/in2p3-00333192/fr/>

Injector diagnostic overview of SPIRAL2 accelerator

C. Jamet, T. André, C. Doutressoulles, B. Ducoudret, W. Le Coz, J.L. Vignet, P. Ausset, C. Olivetto

Proceedings of DIPAC 2007, 370-372

8th European Workshop on Beam Diagnostics and Instrumentation for Particle Accelerators, Venice (IT), May 20-23, 2007

07 133 C

<http://hal.in2p3.fr/in2p3-00340188/fr/>

The advancement of SPIRAL 2 project

Bertrand P., M.H. Moscatello

Proceedings of the 18th International Conference on Cyclotrons and Their Applications

18th International Conférence on Cyclotrons and Their Applications, Giardini-Naxos (IT)

October 1-5, 2007

07 134 C

<http://hal.in2p3.fr/in2p3-00339996/fr/>

Status report on GANIL-SPIRAL1

F. Chautard, C. Berthe, A. Colombe, L. David, P. Dolégieviez , B. Jacquot , C. Jamet, M. Lechartier, P. Lehérisier, G. Sénécal

Proceedings of the 18th International Conference on Cyclotrons and Their Applications

18th International Conférence on Cyclotrons and Their Applications, Giardini-Naxos (IT)

October 1-5, 2007

07 135 C

<http://hal.in2p3.fr/in2p3-00340151/fr/>

The test bench for the power amplifiers of the SPIRAL-2 SC LINAC

M. Di Giacomo, B. Ducoudret, P. Barette, J.-C. Duroy

Proceedings of the SRF2007 (2007) 717

13th International Workshop on RF Superconductivity, Beijing, China, October 14-19, 2007

07 136 C

<http://hal.in2p3.fr/in2p3-00413954/fr/>

The SPIRAL 2 project : Construction progress and récent developments on the SC LINAC Driver

T. Junquera

Proceedings of the SRF2007 (2007) 35-41

13th International Workshop on RF Superconductivity, Beijing, China, October 14-19, 2007

07 137 C

<http://hal.in2p3.fr/in2p3-00456599/fr/>

INTERDISCIPLINAIRE

Irradiation-induced changes in the local environment of Si and Al in InSiAlON glasses as probed by ^{27}Al and ^{29}Si NMR

Daucé R., Le Floch M., Sangleboeuf J.-C., Verdier P.

Institut de chimie Univ. de Rennes – rennes, LARMAUR-CNRS Univ. de Rennes – Rennes, CE Cadarache DEC/SESC –St Paul Lez Durance

Journal of Non-Crystalline Solids 353 (2007) 390-397

07 03 N

Discontinuous ion tracks on silicon oxide surfaces after grazing-angle heavy ion irradiation

Carvalho A.M.J.F., Marinoni M., Touboul A.D., Guasch C., Lebius H., Ramonda M., Bonnet J., Saigne F.

IES – Montpellier, CIRIL – Caen, LMCP - Montpellier

Applied Physics letters 90 (2007) 073116

07 07 N

In-flight emission of projectile Auger electrons from highly energetic heavy ions ($20 \text{ MeV/u} < E < 100 \text{ MeV/u}$) colliding with carbon foils

Lanzanò G., De Filippo, S. Hagmann, H. Rothard, C. Volant

INFN and Dip. Di Fisica – Catania, IKF Univ. of Frankfurt and GSI – Darmstadt, CIRIL – Caen, DAPNIA/SPhN CEA Saclay - Gif-sur-Yvette

NIM B 256 (2007) 510-514

22nd International Conference on Atomic Collisions in Solids, Berlin, Germany

21-26 July 2006

07 11 N

Structural modifications induced by swift heavy ions in cubic stabilized zirconia: An X-ray diffraction investigation

Sattonnay G., Lahrichi M., Benyagoub A., Costantini J.M., Garrido F., Thomé L., Trautmann C.

LEMHE/ICMMO – Orsay, CIRIL – Caen, CEA-Saclay DMN/SRMA – Gif-sur-Yvette, CSNSM – Orsay, GSI – Darmstadt

NIM B 257 (2007) 476-479

15th International Conférence on Ion Beam Modification of Materials

Taormina (IT) 18-22 septembre 2006

07 13 N

Electron capture and electron transport by fast ions penetrating solids : An open quantum system approach with sources and sinks

Seliger M., Reinhold C.O., Minami T., Schultz D.R., Pindzola M.S., Yoshida S., Burgdörfer J., Lamour E., Rozet J.P., Vernhet D.

ITP Vienna Univ. – Vienna, IP Karl-Franzen Univ. Graz – Graz, Physics Div. ORNL - Oak Ridge, DPA Univ. of Tennessee – Knoxville, DP Auburn Univ. – Auburn, INP Univ. Paris 6 et 7 - Paris

Physical Review A 75 (2007) 032714

07 14 N

Electron yields from uranium dioxide under impact of slow Xe ions

Haranger F., Boduch Ph., Lebius H., Maunoury L., Rothard H., Ban-d'Etat B.

CIRIL – Caen,

NIM B 258 (2007) 99-103

16th International Workshop on Inelastic Ion-Surface Collisions (IISC-16)

Hernstein (AUT) 17-22 septembre 2006

07 15 N

Color centers induced in $Y_3Al_5O_{12}$ single crystals by swift heavy ions and reactor neutrons

Izerrouken M., Meftah A., Guerbous L., Nekka M.

NIM B 256 (2007) 266-271

22nd International Conference on Atomic Collisions in Solids, Berlin, Germany

21-26 July 2006

07 16 N

Sputtering by highly charged ions: Application of the XY–TOF technique to secondary ion ejection from LiF

Lenoir J., Boduch P., Rothard H., Ban-d'Etat B., Been T., Cassimi A., Jalowy T., Lebius H., Manil B., Ramillon J.M.

CIRIL – Caen

NIM B 258 (2007) 178-182

16th International Workshop on Inelastic Ion-Surface Collisions (IISC-16)

Hernstein (AUT)

17-22 septembre 2006

07 16 N

Radiation damage induced by swift heavy ions and reactor neutrons in $Y_3Al_5O_{12}$ single crystals

Izerrouken M., Meftah A., Nekkab M.

CRNR – Alger, LRPCSI – Skikda, Univ Ferhat Abbas

NIM B 258 (2007) 395-402

07 25 N

Creation of multiple nanodots by single ions

Akcölerin E., Thorsten P., meyer R., Duvenbeck A., Klusmann M., Monnet I., Lebius H., Schleberger M.

Univ Duisburg – Essen, CIRIL –Caen,

Naturenanotechnology 2 (2007) 290-294

07 26 N

Bombarding insulating foils with highly energetic ions

Lanzano G., De Filippo E., Hagmann S., Rothard H., Volant C.

INFN – Catania, IKF Univ of Frankfurt - Frankfurt, GSI – Darmstadt, CIRIL- Caen, CEA-Saclay DSM/DAPNIA/SPhN - Gif-sur-Yvette

Radiation Effects & Defects in Solids Vol. 162 (5) (2007) 303-318

07 41 N

Structural modification of C-doped SiO_2 induced by swift heavy ion irradiations

Wang Z.G., Zhao Z.M., Benyagoub A., Toulemonde M., Levesque F., Song Y., Jin Y.F., Sun Y.M., Liu C.B., Zang H., Wei K.F.

IMP – Lanzhou, CIRIL – Caen, The Graduated School of Chinese Academy of Science - Beijing

NIM B 256, (2007), 288-292

07 59 N

Flat sheet membrane with controlled variation of pore density and pore size in a direction parallel to the surface

Sirijarukul S., Balanzat E., Vasina E.N., Déjardin P.

EMI Univ. Montpellier – Montpellier, CIRIL - Caen

Journal of Membrane Science, Volume 296, Issues 1-2, (2007), 185-194

07 60 N

Young-type experiment using a single-electron source and an independent atomic-size two-center interferometer

Chesnel J.Y., Hajaji A., Barrachina R.O., Frémont F.

CIRIL – Caen, CABIB – Rio Negro

Physical Review Letters 98 (2007) 100403

07 64 N

Fast electron ejection in atomic collisions studied with the ARGOS multi-detector

De Filippo E., Lanzano G., Rothard H.

INFN – Catania, CIRIL – Caen

Nuclear physics News Vol. 17(2) (2007) 16-19

07 65 N

Alkyne creation in aliphatic polymers : influence of side groupes

Ngono-Ravache Y., Corbin D., Gaté C., Mélot M., Balanzat E.

CIRIL – Caen

Journal of Physical Chemistry 111 (2007) 2813-2819

07 66 N

Yttrium oxide thin films : influence of the oxygen vacancy network organization on the microstructure

Jublôt M., Paumier F., Pailloux B., Lacroix B., Leau E., Guérin P., Marteau M., Jaouen M., Gaboriaud R.J., Imhoff D.

LMP Univ – Poitiers – Chasseneuil, LPS – Orsay

Thin Solids Films 515 (2007) 6385-6390

Symposium J on Synthesis Processing and Characterization of Nanoscale Functional Oxide films – EMRS 2006, Nice (FR), 29 mai – 02 juin 2006

07 61 N

Measurement of the transient response of semiconductor devices to ionizing radiation

Mc Morrow D., Brad Boos J., Melinger J.S., Ferlet-Cavrois V., Paillet P., Duhamel O., Baggio J.

NRL – Washington, CEA/DIF – Bruyères-le-Châtel

NIM B 261 (2007) 1137-1141

CAARI 2006

Nineteenth International Conference on The Application of Accelerators in Research and Industry, Fort Worth, USA, 20-25 août 2006

07 71 N

Magnetostrictive properties of Kr-ion irradiated multilayers

Grenier A., Juraszek J., Tiercelin N., Teillet J., Toulemonde M., Le Breton J.M.

GPM – Saint Etienne du Rouvray, IEMN – Villeneuve d'Asq, CIRIL – Caen

Journal of Magnetism and Magnetic Materials 31 (2007) 2624-2626

07 90 N

Thermodynamics of a heavy-ion-irradiated superconductor/ the zero-field transition

Van der Beck C.J., Klein T., Brusetti R., Marcenat C., Wallin M., Teitel S., Weber H.

Physical Review B 75 (2007) 100501(R)

01 102 N

Fully anisotropic superconducting transition in ion-irradiated $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$

Espinos-Arronte B., Andersson M., Van der Beck C.J., Nikolaou M., Lidmar J., Wallin M.

Physical Review B 75 (2007) 100504(R)

07 103 N

Consequences of external irradiation on the chemical durability of the b-thorium phosphate-diphosphate during leaching tests

Tamain C., Özgümüş A., Dacheux N., Garrido F., Thomé L., Corbel C., Mendès E.

IPN – Orsay, CSNSM – Orsay, LSR Ecole Polytechnique – Palaiseau

Journal of Radioanalytical and Nuclear Chemistry Vol. 273 (2007) 597-601

07 104 N

Nanoporous β -PVDF membranes with selectively functionalized pores

Cuscito O., Clochard M.-C., Esnouf S., Betz N., D. Lairez

LSI Ecole Polytechnique CEA-DSM – Palaiseau, LLB CEA-Saclay – Gif-sur-Yvette

NIM B 265 (2007) 309-313

Seventh International Symposium on Ionizing radiation and Polymers (IRaP2006)

Antalya (TUR), 23-28 septembre 2006

07 107 N

Influence of asymmetric etching on ion track shapes in polycarbonate

Clochard M.C., Wade T.L., Wegrowe J.E., Balanzat E.

LSI Ecole Polytechnique CEA-DSM – Palaiseau, CIRIL – Caen

NIM B 265 (2007) 325-329

Seventh International Symposium on Ionizing radiation and Polymers (IRaP2006)

Antalya (TUR), 23-28 septembre 2006

07 108 N

New conductive copolymer membranes via track-etched PC templates for biological media ultra-filtration

Berthelot T., Baudin C., Balanzat E., Clochard M.C.,

LSI Ecole Polytechnique CEA-DSM – Palaiseau, CIRIL – Caen,

NIM B 265 (2007) 320-24

Seventh International Symposium on Ionizing radiation and Polymers (IRaP2006)

Antalya (TUR), 23-28 septembre 2006

07 109 N

High LET Highly Charged Ion–Induced Ionization and Fragmentation of Water Molecules and Clusters

L Adoui, S Legendre, M Tarisien, A Cassimi, M E Galassi, E Giglio, B Gervais

Journal of Physics: Conference Series 88 (2007) 012023

XXV International Conference on Photonic, Electronic and Atomic Collisions, Freiburg (GER), 25-31 juillet 2007

07 130 N

<http://hal.in2p3.fr/in2p3-00374005/fr/>

Dynamic and thermodynamic properties of porous vortex matter in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ in an oblique magnetic field.

N. Avraham, Y.Y. Goldschmidt, J.C. Liu, Y. Myasoedov, M. Rappaport, E. Zeldov, C.J. Van der Beek, M. Konczykowski, T. Tamegai

Physical Review Letters, 2007. 99 (8): p. 087001.

07 131 N

THÈSES - RAPPORTS

THESES GANIL

PHYSIQUE NUCLEAIRE

Utilisation d'une interaction nucléon-nucléon de portée finie dans le formalisme du modèle en couches avec coupalge aux états du continuum

Faes J.B.

Université de Caen/Basse-Normandie

GANIL T 07 01

<http://tel.archives-ouvertes.fr/tel-00371317/fr/>

Spectroscopie γ des noyaux riches en neutrons autour de $N=20$

Gelin M.

Université de Caen/Basse-Normandie

GANIL T 07 02

<http://tel.archives-ouvertes.fr/tel-00193046/fr/>

Etude de l'influence de l'énergie de correction de couches sur les réactions nucléaires menant à la région des noyaux superlourds

Marchix A.

Université de Caen/Basse-Normandie

GANIL T 07 03

<http://tel.archives-ouvertes.fr/tel-00197012/fr/>

Recherche et développement concernant la production d'ions radioactifs dans le cadre de SPIRAL

Eléon C.

Université de Caen/Basse-Normandie

GANIL T 07 04

<http://tel.archives-ouvertes.fr/tel-00256016/fr/>

RAPPORT GANIL

Analyse de la solution multipiste dans le cadre du projet FAZIA

Chevallier E.

GANIL R 07 01

<http://hal.in2p3.fr/in2p3-00188081/fr/>

Calibration of silicon and Csl detectors of VAMOS

Sorgunlu B.

GANIL R 07 02

GLAMPS – Analysis Package for GANIL Data and Application to VAMOS-EXO GAM Experiments

Chatterjee A., Sugathan P., Navin A., Rejmund M.

GANIL R 07 03

<http://hal.in2p3.fr/in2p3-00178042/fr/>

Le détecteur CAVIAR

Perrot L.

GANIL R 07 04

<http://hal.in2p3.fr/in2p3-00178047/fr/>

THESES RELATIVES A GANIL

PHYSIQUE NUCLEAIRE

Mesure du coefficient de corrélation angulaire bêta-neutrino dans la désintégration de ${}^6\text{He}$ à l'aide d'un piège de Paul

Méry A.

Université de Caen/Basse-Normandie

LPCC T 07-01

<http://tel.archives-ouvertes.fr/tel-00168458/fr/>

Étude de la structure des noyaux non liés ${}^7,9\text{He}$ et ${}^{10}\text{Li}$

Al Falou H.

Université de Caen/Basse-Normandie

LPCC T 07-02

<http://tel.archives-ouvertes.fr/tel-00212214/fr/>

Étude de la structure des noyaux riches en neutrons autour de la fermeture de couches $N=28$ par spectroscopie gamma en ligne

Bastin B.

Université de Caen/Basse-Normandie

LPCC T 07-03

<http://tel.archives-ouvertes.fr/tel-00269886/fr/>

Étude des corrélations dans la dissociation de ${}^8\text{He}$

Laurent B.

Université de Caen/Basse-Normandie

LPCC T 07-04

<http://tel.archives-ouvertes.fr/tel-00265845/fr/>

Nouvelle méthode expérimentale dédiée à l'étude des modes collectifs dans les noyaux exotiques ; Influence de la superfluidité sur le temps de refroidissement d'une étoile à neutrons.

Monrozeau C.

Université Paris XI

IPNO-T-07-06

<http://tel.archives-ouvertes.fr/tel-00221226/fr/>

Stabilité d'éléments superlourds au voisinage de $Z=120$ testée par l'étude de leurs temps de fission déduits par la méthode du blocage cristallin.

Laget M.

Université Paris XI

IPNO-T-08-01

<http://tel.archives-ouvertes.fr/tel-00267861/fr/>

INTERDISCIPLINAIRE

Effets d'irradiation et diffusion des produits de fission (césium et iode) dans le carbure de silicium

Audren A.

Université de Caen/Basse-Normandie

22 mars 2007

<http://tel.archives-ouvertes.fr/tel-00161085/fr/>

Faisceau d'agrégat chargés sélectionnés en taille : Réalisation et premières expériences

Kamalou O.

Université de Caen/Basse-Normandie

23 avril 2007

Elaboration de membranes à traces en poly(éthylènetéréphtalate) ayant un gradient linéaire de taille de pore et une porosité constante.

Sirijarukul S.

Université Montpellier 2

Fragmentation dynamics of triatomic molecules: contribution of geometry

Muranaka T.

Université de Caen/Basse-Normandie

<http://tel.archives-ouvertes.fr/tel-00565897/>

HDR relatifs au GANIL :

Etudes de la stabilité de nano-objets complexes chargés : agrégats et systèmes moléculaires d'intérêt biologique

Manil Bruno

Université de Caen/Basse-Normandie

23 novembre 2007

<http://tel.archives-ouvertes.fr/tel-00192617/fr/>