

**LIST OF PAPERS (2013 – 2018)**

**2018**

**Review papers**

1. S. Gales, K. A. Tanaka, D. L. Balabanski, F. Negoita, D. Stutman, O. Tesileanu, C. A. Ur, D. Ursescu, S. Ataman, M. O. Cernaianu, I. Dancus, B. Diaconescu, N. Djourellov, D. Filipescu, P. Ghenuche, C. Matei, K. Seto, L. D'Alessi, M. Zeng, N.V. Zamfir  
*The extreme light infrastructure – nuclear physics (ELI-NP) facility: New horizons in physics with 10-PW ultra-intense lasers and 20-MeV brilliant gamma beams*  
**Rep. Prog. Phys. 81, 094301 (2018)**

**Original papers**

2. D. Ralet, E. Clément, M. Rejmund, G. Georgiev, A. E. Stuchbery, P. Van Isacker, G. de France, A. Lemasson, B. Jacquot, C. Michelagnoli, A. Navin, L. Atanasova, D. L. Balabanski, G. Bocchi, R. Carroll, A. Dewald, J. Dudouet, E. Dupont, B. Fornal, S. Franchoo, C. Fransen, C. Müller-Gatermann, A. Goasduff, A. Gadea, P. R. John, D. Kocheva, T. Konstantinopoulos, A. Korichi, A. Kusoglu, S. M. Lenzi, S. Leoni, J. Ljungvall, R. Lozeva, A. Maj, R. Perez, N. Pietralla, C. Shand, O. Stezowski, D. Yordanov and the AGATA collaboration  
*First evidence of two-phonon octopole vibrational state of  $^{208}\text{Pb}$*   
**Phys. Rev. Lett. (2019) in preparation**
3. A. Spataru, T. Dickel, J. Winfield, P. Constantin, D. Balabanski, D. Nichita, A. Rotaru, A. State  
*MULTI-NUCLEON TRANSFER REACTIONS IN  $^{238}\text{U} + ^{64}\text{Ni}$  USING THE GRAZING MODEL*  
**U.P.B. Sci. Bull., Series A (2018) in preparation**
4. D. Nichita, P. Constantin, D. L. Balabanski, B. Mei, A. Rotaru, T. Sava, A. Spataru, A. State  
*Optimization of the photo-fission fragment production in the IGISOL setup at ELI-NP*  
**U.P.B. Sci. Bull., Series A (2018) in preparation**
5. Bo Mei, D.L. Balabanski, W. Hua, Y.H. Zhang, X.H. Zhou  
*Fusion reactions around the barrier for  $\text{Be} + ^{238}\text{U}$*   
**Phys. Rev. C (2018) submitted**
6. Alexandru STATE, Mihai MERISANU, Dimiter L. BALABANSKI, Paul CONSTANTIN, Tiberiu SAVA, Adrian ROTARU, Traian ROMAN, Dragoş NICHITA, Anamaria SPĂTARU  
*Ion Extraction from Gas Cells with Supersonic Jets Formed in Laval Nozzles*  
**U.P.B. Sci. Bull., Series A (2018) submitted**
7. N. Grigoryan, R. Ajvazyan, V. Kakoyan, P. Khachatryan, V. Khachatryan, H. Vardanyan, S. Zhamkochyan, A. Margaryan, D.L. Balabanski, J.R.M. Annand, K. Livingston, R. Montgomery, I. Filikh, T. Patterson, B. Vlahovic  
*Active target for  $\alpha$ -particle condensation studies in  $^{16}\text{O}$*   
**Arm. J. Phys. (2018) submitted**
8. H. Y. Lan, Y. Xu, W. Luo, D. L. Balabanski, S. Goriely, M. La Cognata, C. Matei, A. Anzalone, S. Chesnevskaia, G. L. Guardo, D. Lattuada, R. G. Pizzone, S. Romano, C. Spitaleri, A. Taffara, A. Tumino, and Z. C. Zhu  
*Determination of the photodisintegration reaction rates involving charged particles: Systematic calculations and proposed measurements based on the facility for Extreme Light Infrastructure–Nuclear Physics*  
**Phys. Rev. C 98, 054601 (2018)**

9. Andreea Bianca Serban, Vladimir-Lucian Ene, Cristina Constanta Gheorghiu, Dimiter L. Balabanski, Ecaterina Andronescu, Victor Leca  
*RF magnetron scattering of GaN on sapphire substrate*  
**U.P.B. Sci. Bull., Series A (2018) submitted**
  10. G.V. Turturica, C. Matei, A. Pappalardo, D. L. Balabanski, S. Chesnevskaia, V. Iancu, C. A. Ur, H. J. Karwowski, K. A. Chipps, M. T. Febbraro, S. D. Pain, D. Walter, C. Aa. Diget, J. Frost-Schenk, M. K. Munch, G. L. Guardo, M. La Cognata, R. G. Pizzone, K. Y. Chae, M. Kim, M. Kwang  
*Investigation of Compton scattering from gamma beam intensity and perspectives for ELI-NP*  
**Nucl. Instr. Meth. Phys. Res. A (2018) in print**
  11. FILIP D. PUICEA, DIMITER L. BALABANSKI, DANA NICULAE  
*Experimental Set-up for Medical Radioisotopes Production at ELI-NP*  
**U.P.B. Sci. Bull., Series A (2018) in preparation**
  12. Adrian ROTARU, Gheorghe CĂȚA-DANIL, Paul CONSTANTIN, Dimiter L. BALABANSKI, Tiberiu SAVA, Alexandru STATE, Anamaria SPĂȚARU, Dragoș NICHITA, Doru PĂCEȘILĂ  
*Simulation of circular radio-frequency carpets for ion extraction from cryogenic stopping cells*  
**U.P.B. Sci. Bull., Series A (2018) submitted**
  13. Y. Ichikawa, H. Nishibata, Y. Tsunoda, A. Takamine, K. Imamura, T. Fujita, T. Sato, S. Momiyama, Y. Shimizu, D. S. Ahn, K. Asahi, H. Baba, D. L. Balabanski, F. Boulay, J. M. Daugas, T. Egami, N. Fukuda, C. Funayama, T. Furukawa, G. Georgiev, A. Gladkov, N. Inabe, Y. Ishibashi, T. Kawaguchi, T. Kawamura, Y. Kobayashi, S. Kojima, A. Kusoglu, I. Mukul, M. Niikura, T. Nishizaka, A. Odahara, Y. Ohtomo, T. Otsuka, D. Ralet, G. S. Simpson, T. Sumikama, H. Suzuki, H. Takeda, L. C. Tao, Y. Togano, D. Tominaga, H. Ueno, H. Yamazaki and X. F. Yang  
*Interplay between nuclear shell evolution and shape deformation revealed by magnetic moment of  $^{75}\text{Cu}$*   
**Nature Phys. (2018) in print**
  14. M. Hammen, W. Nortershauser, D. L. Balabanski, M. L. Bissell, K. Blaum, A. Blazhev, I. Budincevic, N. Frommgen, G. Georgiev, Ch. Geppert, H. Grawe, M. Kowalska, K. Kreim, A. Krieger, W. Nazarewicz, R. Neugart, G. Neyens, J. Papuga, P.-G. Reinhard, S. Schmidt and D. T. Yordanov  
*Nuclear Charge Radii of  $^{110-130}\text{Cd}$*   
**Phys. Rev. Lett. 121, 102501 (2018)**
  15. D. T. Yordanov, D. L. Balabanski, M. L. Bissell, K. Blaum, A. Blazhev, I. Budincevic, N. Frommgen, Ch. Geppert, H. Grawe, M. Hammen, K. Kreim, R. Neugart, G. Neyens and W. Nortershauser  
*Spins and Electromagnetic Moments of  $^{101-109}\text{Cd}$*   
**Phys. Rev. C 98, 011303 (R) (2018)**
  16. S. Chesnevskaia, D.L. Balabanski, D. Choudhury, P. Constantin, D.M. Filipescu, D.G. Ghita, G.L. Guardo, D. Lattuada, C. Matei, A. Rotaru and A. State  
*Performance studies of X3 silicon detectors for the future ELISSA array at ELI-NP*  
**JINST 13, T05006 (2018)**
- Conference papers (peer refereed journals)**
17. M. Gai, D. Schweitzer, S.R. Stern, A.H. Young, R. Smith, M. Cwiok, J.S. Bihalowicz, H. Czyrkowski, R. Dabrowski, W. Dominik, A. Fijalkowska, Z. Janas, L. Janiak, A. Korgul, T. Matulewicz, C. Mazzocchi, M. Pfuetzner, M. Zaremba, D. Balabanski, I. Gheorge, C. Matei, O. Tesilenau, V.N. Zamfir, M.W. Ahmed, S.S. Henshaw, C.R. Howell, J.M. Mueller, L.S. Myers, S. Stave, C. Sun, H.R. Weller, Y.K. Wu, A. Breskin, V. Dangendorf, K. Tittelmeier  
*Time Projection Chamber (TPC) Detectors for Nuclear Astrophysics Studies with Gamma Beams*  
Symposium on Radiation Measurements and Applications (SORMA XVIII), June 11<sup>th</sup>-14<sup>th</sup>, 2018, Ann Arbor, MI, USA

**Nucl. Instr. Meth. Phys. Res. A (2018) submitted**

18. Dimitre L. BALABANSKI, Adrian ROTARU, Alexandru STATE, Mihai MERISANU, Le Tuan ANH, Tiberiu SAVA, Dan GHITA, Christoph SCHEIDENBERGER, Timo DICKEL, Wolfgang R. PLA<sup>2</sup>  
*The IGISOL Facility at ELI-NP*  
10<sup>th</sup> International Conference on Nuclear Physics at Storage Rings (STORI'17), Nov. 13<sup>th</sup>-18<sup>th</sup>, 2017, Kanazawa, Japan

**JPS Conf. Proc. (2018) submitted**

19. Robert Ajvazyan, John R. M. Annand, Dimitre L. Balabanski, Nersik Grigoryan, Vanik Kakoyan, Patrik Khachatryan, Vachik Khachatryan, Kenneth Livingston, Rachel Montgomery, Henrik Vardanyan, Branislav Vlahovic, Simon Zhamkochyan and Amur Margaryan  
*Active Oxygen Target for Studies in Nuclear Astrophysics with Laser Compton Backscattered  $\gamma$ -ray Beams*  
Int. Conference "The Modern Physics of Compact Stars and Relativistic Gravity 2017", Sept. 18<sup>th</sup>-22<sup>nd</sup>, 2017, Yerevan, Armenia

**Particles 1, 010009 (2018)**

20. M. Ćwiok, M. Bieda, J.S. Białowicz, W. Dominik, Z. Janas, Ł. Janiak, J. Mańczak, T. Matulewicz, C. Mazzocchi, M. Pfützner, P. Podlaski, S. Sharma, M. Zaremba, D. Balabanski, A. Bey, D.G. Ghita, O. Tesileanu, M. Gai  
*A TPC Detector for studying photo-nuclear reactions at astrophysical energies with gamma-ray beams at ELI-NP*  
XXXV Mazurian Lakes Conference on Physics of Exotic Nuclei – Laboratories for Fundamental Laws of Nature, September 3<sup>rd</sup>-9<sup>th</sup>, 2017, Piaski, Poland

**Acta Phys. Pol. B 49, 509-514 (2018)**

**Conference papers (conference series)**

21. D.L. Balabanski, D. Choudhury, A. Oberstedt, A. Krasznahorkay, L. Scige, J. Gulyas, M. Csatlos, S. Coban  
*Gamma-beam photofission experiments at ELI-NP: The future is emerging*  
**EPJ Web of Conferences 193, 04004 (2018)**
22. T. Petruse, G.L. Guardo, I. Indelicato, M. La Cognata, C. Matei, D. L. Balabanski, B. Becherini, S. Cheburini, M. Gulino, S. Hayakawa, L. Lamia, D. Lattuada, R.G. Pizzone, S. M. R. Puglia, G. G. Rapisarda, S. Romano, C. Spitaleri, O. Trippella, A. Tumino  
*Preliminary results of the  $^{19}\text{F}(p,\alpha)^{16}\text{O}$  reaction, at astrophysical energies via the Trojan Horse Method*  
Carpathian Summer School of Physics 2018: Exotic Nuclei and Nuclear/Particle Astrophysics(VII). Physics with Small Accelerators, July 1<sup>st</sup>-14<sup>th</sup>, 2018, Sinaia, Romania  
**AIP Conf. Proc. (2018) submitted**
23. G.L. Guardo, A. Anzalone, D. L. Balabanski, S. Chesnevska, V. Crucillà, D. Filipescu, M. Gulino, M. La Cognata, D. Lattuada, C. Matei, R.G. Pizzone, G. G. Rapisarda, S. Romano, C. Spitaleri, A. Taffara, A. Tumino, Y. Xu  
*Development of the ELISSA array: prototype testing at Laboratori Nazionali del Sud*  
9<sup>th</sup> European Summer School on Experimental Nuclear Astrophysics, Eds. C. Spitaleri, L. Lamia, R. G. Pizzone, G. Rapisarda and M. L. Sergi, Sept. 17<sup>th</sup>-24<sup>th</sup>, 2017, Santa Tecla, Catania, Italy  
**EPJ Web of Conferences 184, 02006 (2018)**
24. D. Lattuada, M. La Cognata, A. Anzalone, D. L. Balabanski, S. Chesnevska, M. Costa, V. Crucillà, G. L. Guardo, M. Gulino, C. Matei, R.G. Pizzone, S. Romano, C. Spitaleri, A. Tumino, Y. Xu  
*A Geant4-based Monte Carlo Tool for Nuclear Astrophysics*

- 9<sup>th</sup> European Summer School on Experimental Nuclear Astrophysics, Eds. C. Spitaleri, L. Lamia, R. G. Pizzone, G. Rapisarda and M. L. Sergi, Sept. 17<sup>th</sup>-24<sup>th</sup>, 2017, Santa Tecla, Catania, Italy  
**EPJ Web of Conferences 184, 02008 (2018)**
25. Y. Xu, S. Goriely, D.L. Balabanski, S. Chesnevskaia, G.L. Guardo, M. La Cognata, H.Y. Lan, D. Lattuada, W. Luo and C. Matei  
*Capture and photonuclear reaction rates involving charged-particles: Impacts of nuclear ingredients and future measurement on ELI-NP*  
 Proc. 16<sup>th</sup> Int. Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Sept. 18<sup>th</sup>-22<sup>nd</sup>, 2017, Shanghai, China  
**EPJ Web of Conferences 178, 04007 (2018)**
26. Bo Mei, Dimiter Balabanski, Paul Constantin, Tuan Anh Le and Phan Viet Cuong  
*Production of neutron-rich nuclei approaching r-process by gamma-induced fission of  $^{238}\text{U}$  at ELI-NP*  
 Proc. 16<sup>th</sup> Int. Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Sept. 18<sup>th</sup>-22<sup>nd</sup>, 2017, Shanghai, China  
**EPJ Web of Conferences 178, 04009 (2018)**
27. F.C.L. Crespi, A. Bracco, A. Tamii, N. Blasi, F. Camera, O. Wieland, N. Aoi, D. Balabanski, S. Bassauer, A. S. Brown, M. P. Carpenter, J. J. Carroll, M. Ciemala, A. Czeszumski, P. J. Davies, L. Donaldson, Y. Fang, H. Fujita, G. Gey, T. H. Hoang, N. Ichige, E. Ideguchi, A. Inoue, J. Isaak, C. Iwamoto, D. G. Jenkins, O. H. Jin, T. Klaus, N. Kobayashi, T. Koike, M. Krzysiek, M. Kumar Raju, M. Liu, A. Maj, D. Montanari, L. Morris, S. Noji, S. G. Pickstone, D. Savran, M. Spieker, G. Steinhilber, C. Sullivan, B. Wasilewska, V. Werner, T. Yamamoto, Y. Yamamoto, X. Zhou, S. Zhu  
*Gamma decay of pygmy states in  $^{90,94}\text{Zr}$  from inelastic scattering of light ions*  
 International Workshop "Nuclear Reactions on Nucleons and Nuclei", Oct. 24<sup>th</sup>-25<sup>th</sup>, 2017, Messina, Italy  
**J. Phys. Conf. Series 1014, 012002 (2018)**
28. Dimiter L. Balabanski  
*Experiments with brilliant gamma beams at ELI-NP: A glimpse in the future*  
 12<sup>th</sup> International Spring Seminar on Nuclear Physics "Current Problems and Prospects for Nuclear Structure", May 14<sup>th</sup>-19<sup>th</sup>, 2017, Sant'Angelo d'Ischia, Italy  
**J. Phys. Conf. Series 966, 012018 (2018)**
29. C. Matei, D. Balabanski, D. M. Filipescu and O. Tesileanu  
*Photodisintegration reactions for nuclear astrophysics studies at ELI-NP*  
 Nuclear Physics in Astrophysics Conference (NPA VII), May 18<sup>th</sup>-22<sup>nd</sup>, 2015, York, UK  
**J. Phys. Conf. Series 940, 012025 (2018)**

## 2017

### Review papers

30. D.L. Balabanski, R. Popescu, D. Stutman, K. Tanaka, O. Tesileanu, C.A. Ur, D. Ursescu, N.V. Zamfir  
*New light in nuclear physics: The Extreme Light Infrastructure*  
**Europhys. Lett. 117, 28001 (2017)**

### Original papers

31. B. Mei, D. L. Balabanski, P. Constantin, L. T. Anh, and P. V. Cuong  
*Empirical parametrization for production cross sections of neutron-rich nuclei by photofission of  $^{238}\text{U}$  at low energies*  
**Phys. Rev. C 96, 064610 (2017)**
32. Wen Luo, Hao-yang Lan, Yi Xu, Dimiter L. Balabanski

*Implementation of the n-body Monte-Carlo event generator into the Geant4 toolkit for photonuclear studies*

**Nucl. Instr. Meth. Phys. Res. A 849, 49-54 (2017)**

33. P. Constantin, D.L. Balabanski, L. Anh, P. Cuong, B. Mei

Design of the gas cell for the IGISOL facility at ELI-NP

**Nucl. Instrum. Meth. Phys. Res. B 397, 1-10 (2017)**

34. HUA Wei, ZHANG Yuhu, ZHOU Xiaohong, G. de France, D. L. Balabanski, G. Georgiev, GUO Yingxiang, MA Fei, LEI Xiangguo, LIU Minliang, LI Guangshun, GUO Song, QIANG Yunhua, HAN Lixiang, YUAN Cenxi

Cross Section Measurement of the Fusion Evaporation Reaction  $^{238}\text{U}(^9\text{Be}, 5n)^{242}\text{Cm}$

**Nucl. Phys. Rev. 34, 02-0138-05 (2017)**

35. M. Jentschel, A. Blanc, G. de France, U. Köster, S. Leoni, P. Mutti, G. Simpson, T. Soldner, C. Ur, W. Urban, S. Ahmed, A. Astier, L. Augey, T. Back, P. Baczyk, A. Bajoga, D. Balabanski, T. Belgya, G. Benzoni, C. Bernards, D.C. Biswas, G. Bocchi, S. Bottoni, R. Britton, B. Bruyneel, J. Burnett, R.B. Cakirli, R. Carroll, W. Catford, B. Cederwall, I. Celikovic, N. Cieplicka-Oryńczak, E. Clement, N. Cooper, F. Crespi, M. Csatos, D. Curien, M. Czerwiński, L.S. Danu, A. Davies, F. Didierjean, F. Drouet, G. Duchêne, C. Ducoin, K. Eberhardt, S. Erturk, L.M. Fraile, A. Gottardo, L. Grente, L. Grocutt, C. Guerrero, D. Guinet, A.-L. Hartig, C. Henrich, A. Ignatov, S. Ilieva, D. Ivanova, B.V. John, R. John, J. Jolie, S. Kisyov, M. Krück, T. Konstantinopoulos, A. Korgul, A. Krasznahorkay, T. Kröll, J. Kurpeta, I. Kuti, S. Lalkovski, C. Larijani, R. Leguillon, R. Lica, O. Litaize, R. Lozeva, C. Magron, C. Mancuso, E. Ruiz Martinez, R. Massarczyk, C. Mazzocchi, B. Melon, D. Mengoni, C. Michelagnoli, B. Million, C. Mokry, S. Mukhopadhyay, K. Mulholland, A. Nannini, D.R. Napoli, B. Olaizola, R. Orlandi, Z. Patel, V. Pazyi, C. Petrache, M. Pfeiffer, N. Pietralla, Z. Podolyak, M. Ramdhane, N. Redon, P. Regan, J.M. Regis, D. Regnier, R. J. Oliver, M. Rudigier, J. Runke, T. Rzaca-Urban, N. Saed-Samii, M.D. Salsac, M. Scheck, R. Schwengner, L. Sengele, P. Singh, J. Smith, O. Stezowski, B. Szpak, T. Thomas, M. Thürauf, J. Timar, A. Tom, I. Tomandl, T. Tornyai, C. Townsley, A. Tuerler, S. Valenta, A. Vancraeynest, V. Vandone, J. Vanhoy, V. Vedia, N. Warr, V. Werner, D. Wilmsen, E. Wilson, T. Zerrouki, and M. Zielinska

*EXILL – a high-efficiency, high-resolution setup for  $\gamma$ -spectroscopy at an intense cold neutron beam facility*

**JINST 12, P11003 (2017)**

**Conference papers (peer refereed journals)**

36. D. Ralet, G. Georgiev, A. E. Stuchbery, E. Clément, A. Lemasson, C. Michelagnoli, M. Rejmund, L. Atanasova, D. L. Balabanski, G. Bocchi, R. Carroll, A. Dewald, J. Dudouet, B. Fornal, G. de France, S. Franchoo, C. Fransen, C. Müller-Gatermann, A. Goasduff, A. Gadea, B. Jacquot, P. R. John, D. Kocheva, T. Konstantinopoulos, A. Korichi, A. Kusoglu, S. M. Lenzi, S. Leoni, J. Ljungvall, R. Lozeva, A. Maj, A. Navin, R. Perez, N. Pietralla, C. Shand, O. Stezowski and D. Yordanov

*Toward lifetime and g factor measurements of short-lived states in the vicinity of  $^{208}\text{Pb}$*

Nuclear Shapes and Symmetries: From Experiment to Theory (SSNET'16 Workshop), Nov. 7<sup>th</sup>-11<sup>th</sup>, 2016, Gif-sur-Yvette, France

**Phys. Scr. 92, 054004 (2017)**

37. D. Filipescu, D.L. Balabanski, F. Camera, I. Gheorghe, D. Ghita, T. Glodariu, J. Kaur, C.A. Ur, H. Utsunomiya, V.V. Varlamov

*Future prospects of nuclear reactions induced by gamma-ray beams at ELI-NP*

XIV International Seminar on Electromagnetic Interactions of Nuclei "EMIN-2015", Oct. 5<sup>th</sup>-8<sup>th</sup>, 2015, Moscow, Russia

**Phys. Part. Nucl. 48, 134-138 (2017)**

38. D. Choudhury, D.L. Balabanski, A. Krasznahorkay, L. Csige, J. Gulyas, M. Csatos, P. Constantin, S. Coban  
*Prospectives of Photofission Studies with High-brilliance Narrow-width Gamma Beams at the New ELI-NP Facility*  
 Zakopane Conference on Nuclear Physics “Extremes of the Nuclear Landscape”, Aug. 28–Sept. 4, 2016, Zakopane, Poland.  
**Acta Phys. Pol. B 48, 559 (2017)**
39. M. La Cognata, A. Anzalone, D. Balabanski, S. Chesnevskaia, V. Crucillà, D. M. Filipescu, G.L. Guardo, M. Gulino, D. Lattuada, C. Matei, R.G. Pizzone, S. Romano, C. Spitaleri, A. Taffara, O. Tesileanu, A. Tumino, Y. Xu  
*Gamma ray beams for Nuclear Astrophysics: first results of tests and simulations of the ELISSA array*  
 3<sup>rd</sup> ELIMED Workshop MEDical and Multidisciplinary Applications of Laser-Driven Ion Beams at ELI-Beamlines (III ELIMED), Sept. 7-10, 2016, Catania, Italy  
**JINST 12, C03079 (2017)**
- Conference papers (conference series)**
40. S. Chesnevskaia, D. L. Balabanski, D. Choudhury, M. La Cognata, P. Constantin, D. M. Filipescu, D. G. Ghita, G. L. Guardo, D. Lattuada, C. Matei, A. Rotaru, C. Spitaleri, A. State, and Y. Xu  
*Characterization of X3 Silicon Detectors for the ELISSA Array at ELI-NP*  
 Nuclear Physics in Astrophysics Conference (NPA VIII), June 18<sup>th</sup>-23<sup>rd</sup>, 2017, Catania, Italy  
**EPJ Web of Conferences 165, 01011 (2017)**
41. Giovanni Luca Guardo, Antonello Anzalone, Dimitier Balabanski, Svetlana Chesnevskaia, Walter Crucillà, Dan Filipescu, Marisa Gulino, Marco La Cognata, Dario Lattuada, Catalin Matei, Rosario Gianluca Pizzone, Giuseppe Rapisarda, Stefano Romano, Claudio Spitaleri<sup>1</sup>, Alessandra Taffara, Aurora Tumino, and Yi Xu  
*Nuclear Astrophysics at ELI-NP: the ELISSA prototype tested at Laboratori Nazionali del Sud*  
 Nuclear Physics in Astrophysics Conference (NPA VIII), June 18<sup>th</sup>-23<sup>rd</sup>, 2017, Catania, Italy  
**EPJ Web of Conferences 165, 01026 (2017)**
42. D. Lattuada, D. L. Balabanski, S. Chesnevskaia, M. Costa, V. Crucillà, G. L. Guardo, M. La Cognata, C. Matei, R. G. Pizzone, S. Romano, C. Spitaleri, A. Tumino, and Y. Xu  
*A fast and complete GEANT4 and ROOT Object-Oriented Toolkit: GROOT*  
 Nuclear Physics in Astrophysics Conference (NPA VIII), June 18<sup>th</sup>-23<sup>rd</sup>, 2017, Catania, Italy  
**EPJ Web of Conferences 165, 01034 (2017)**
43. Dimitier L. Balabanski  
*Nuclear physics and astrophysics experiments at ELI-NP: The emerging future*  
 Nuclear Physics in Astrophysics Conference (NPA VIII), June 18<sup>th</sup>-23<sup>rd</sup>, 2017, Catania, Italy  
**EPJ Web of Conferences 165, 01003 (2017)**
44. Yi Xu, Wen Luo, Dimitier Balabanski, Stephane Goriely, Catalin Matei, and Ovidiu Tesileanu  
*Photonuclear reactions in astrophysical p-process: Theoretical calculations and experiment simulation based on ELI-NP*  
 International Conference on Nuclear data for Science and Technology (ND2016), Sept. 11<sup>th</sup>, 16<sup>th</sup>, 2016, Bruges, Belgium  
**EPJ Web of Conferences 146, 01015 (2017)**
45. Alexandru Negret, Dimitier Balabanski, Paraskevi Dimitriou, Zoltan Elekes, Theo J. Mertzimekis, Sorin Pascu, and Janos Timar  
*Nuclear structure and decay data evaluation in Europe*

International Conference on Nuclear data for Science and Technology (ND2016), Sept. 11<sup>th</sup>, 16<sup>th</sup>, 2016, Bruges, Belgium

**EPJ Web of Conferences 146, 02042 (2017)**

46. A. Cucoanes, D. Balabanski, F. Canova, P. Cuong, F. Negoita, F. Puicea, K. Tanaka  
*On the potential of laser driven isotope generation at ELI-NP for positron emission tomography*  
Medical Applications of Laser-Generated Beams of Particles IV: Review of Progress and Strategies for the Future, ed. Kenneth W. D. Ledingham, April 24<sup>th</sup>-25<sup>th</sup>, 2017, Prague, Czech Republic  
**Proc. SPIE10239, 102390B (2017)**
47. D. Choudhury, D. Balabanski, A. Krasznahorkay, L. Csige, J. Gulyas, M. Csatlós, P. Constantin, S. Coban  
*High-resolution photofission studies with the gamma beam system at ELI-NP*  
Carpathian Summer School of Physics (CSSP16), June 26<sup>th</sup>-July 9<sup>th</sup>, 2016, Sinaia, Romania  
**AIP Conf. Proc. 1852, 070003 (2017)**

#### **Laboratory reports**

48. Y. Ichikawa, H. Nishibata, Y. Tsunoda, A. Takamine, K. Imamura, T. Fujita, T. Sato, S. Momiyama, Y. Shimizu, D. S. Ahn, K. Asahi, H. Baba, D. L. Balabanski, F. Boulay, J. M. Daugas, T. Egami, N. Fukuda, C. Funayama, T. Furukawa, G. Georgiev, A. Gladkov, N. Inabe, Y. Ishibashi, T. Kawaguchi, T. Kawamura, Y. Kobayashi, S. Kojima, A. Kusoglu, I. Mukul, M. Niikura, T. Nishizaka, A. Odahara, Y. Ohtomo, T. Otsuka, D. Ralet, G. S. Simpson, T. Sumikama, H. Suzuki, H. Takeda, L. C. Tao, Y. Togano, D. Tominaga, H. Ueno, H. Yamazaki, and X. F. Yang  
*Competition between shell and shape in <sup>75</sup>Cu clarified by the novel magnetic moment measurement*  
**RIKEN Accelerator Progress Report 2016, vol. 50, p. 60 (2017)**

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#### **Review papers**

49. S. Gales, D. L. Balabanski, F. Negoita, O. Tesileanu, C.A. Ur, D. Ursescu, N.V. Zamfir  
*New frontiers in nuclear physics with high-power lasers and brilliant monochromatic gamma beams*  
**Phys. Scr. 91, 093004 (2016)**

#### **Original papers**

50. Wen Luo, Dimiter L. Balabanski, Dan Filipescu  
*A data-based photonuclear simulation algorithm for determining specific activity of medical radioisotopes*  
**Nucl. Sci. Tech. 27, 113 (2016)**
51. M.O. Cernaianu, B. De Boisdeffre, D. Ursescu, F. Negoita, C.A. Ur, O. Tesileanu, D. Balabanski, T. Ivanoaica, M. Ciubancan, M. Toma, I. Dancus, S. Gales  
*Monitoring and control systems for experiments at ELI-NP*  
**Rom. Rep. Phys. 68, S349–S443 (2016)**
52. D.L. Balabanski, F. Ibrahim, A. Krasznahorkay, I. Boztosun, D. Choudhury, S. Coban, P. Constantin, L. Csige, P.V. Cuong, T. Dickel, H. Djapo, I. Dobrin, S. Essabaa, D. Filipescu, S. Franchoo, G. Georgiev, I. Gheorghe, D. Ghita, T. Glodariu, M. Gupta, A. Jokinen, J. Kaur, N. Marginean, R. Marginean, I. Moore, H. Pentilla, C. Petcu, W. Plass, T. Sava, G. Savard, C. Scheidenberger, D. Yordanov  
*Photofission experiments at ELI-NP*  
**Rom. Rep. Phys. 68, S621–S698 (2016)**
53. M. Bobeica, D. Niculae, D. Balabanski, D. Filipescu, I. Gheorghe, D.G. Ghita, W. Luo

Radioisotope production for medical applications at ELI-NP

**Rom. Rep. Phys. 68, S847–S883 (2016)**

54. A. Kusoglu, G. Georgiev, C. Sotty, D. L. Balabanski, A. Goasduff, Y. Ishii, Y. Abe, K. Asahi, M. Bostan, R. Chevrier, M. Chikamori, J. M. Daugas, T. Furukawa, H. Nishibata, Y. Ichikawa, Y. Ishibashi, R. Lozeva, H. Miyatake, D. Nagae, T. Nanao, M. Niikura, T. Niwa, S. Okada, A. Ozawa, Y. Saito, H. Shirai, H. Ueno, D.T. Yordanov, and N. Yoshida  
*Magnetic moment of the  $13/2^+$  isomeric state in  $^{69}\text{Cu}$ : Spin alignment in the one-nucleon removal reaction*  
**Phys. Rev. C 93, 054313 (2016)**
55. P. Constantin, D.L. Balabanski, and P.V. Cuong  
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**Nucl. Instr. Meth. B 372, 78–85(2016)**
56. D. T. Yordanov, D.L. Balabanski, M.L. Bissell, K. Blaum, I. Budinčević, B. Cheal, K. Flanagan, N. Frömmgen, G. Georgiev, Ch. Geppert, M. Hammen, M. Kowalska, K. Kreim, A. Krieger, J. Meng, R. Neugart, G. Neyens, W. Nörtershäuser, M.M. Rajabali, J. Papuga, S. Schmidt, and P.W. Zhao  
*Simple Nuclear Structure in  $^{111-129}\text{Cd}$  from Atomic Isomer Shifts*  
**Phys. Rev. Lett. 116, 032501(2016)**
57. Wen Luo, Mariana Bobeica, Ioana Gheorghe, Dan M. Filipescu, Dana Niculae, and Dimiter L. Balabanski  
*Estimates for production of radioisotopes of medical interest at Extreme Light Infrastructure – Nuclear Physics facility*  
**Appl. Phys. B 122:8 (2016)**
58. T. Konstantinopoulos, S. F. Ashley, M. Axiotis, A. Spyrou, S. Harissopulos, A. Dewald, J. Litzinger, O. Möller, C. Müller-Gatterman, P. Petkov, D. R. Napoli, N. Marginean, G. de Angelis, C. A. Ur, D. Bazzacco, E. Farnea, S. M. Lenzi, R. Vlastou, and D. Balabanski  
*Lifetime measurements in  $^{102}\text{Pd}$ : Searching for empirical proof of the E(5) critical-point symmetry in nuclear structure*  
**Phys. Rev. C 93, 014320 (2016)**
- Conference papers (peer refereed journals)**
59. C. Matei, D.L. Balabanski, O. Tesileanu, Y. Xu, M. La Cognata, C. Spitarceli  
*Nuclear astrophysics measurements with ELISSA at ELI-NP*  
2<sup>nd</sup> Sicily-East Asia Workshop (SEA2106), June 26-28, 2016, Wako, Japan  
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60. W. Luo, M. Bobeica, D. Filipescu, I. Gheorghe, D. Niculae, D. Balabanski  
*Production of radioisotopes of medical interest by photonuclear reaction using ELI-NP  $\gamma$ -ray beam*  
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- Conference papers (conference series)**
61. V. Iancu, G. Suliman, G. V. Turturica, M. Iovea, I. Daito, H. Ohgaki, C. Matei, C. A. Ur, D. L. Balabanski  
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**J. Phys. Conf. Series 763, 012003 (2016)**



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**J. Phys. Conf. Series 724, 012051 (2016)**

#### **Book chapters**

63. D.L. Balabanski, B. Blümich, N. Gelli, V. Iancu, M. Iovea, A. Kriznar, M. Massi, A. Mazzinghi, I. Ortega-Feliu, M.A. Respaldiza, C. Ruberto, S. Scricano, G. Suliman, Z. Szőkefalvi-Nagy, C.A. Ur, W. Zia  
*Complementary methods:  $\gamma$ -beam techniques, X-ray fluorescence (XRF) and nuclear magnetic resonance (NMR)*  
**Nuclear Physics for Cultural Heritage**, eds. Anna Macková, Douglas MacGregor, Faiçal Azaiez, Johan Nyberg, and Eli Piasezky (EDP Sciences, Mulhouse, 2016) pp. 37-53  
**ISBN: 978-2-7598-2091-7**

## **2015**

#### **Review papers**

64. D. Filipescu, A. Anzalone, D.L. Balabanski, S. S. Belyshev, F. Camera, M. La Cognata, P. Constantin, L. Csige, P. V. Cuong, M. Cwiok, V. Derya, W. Dominik, M. Gai, S. Gales, I. Gheorghe, B.S. Ishkhanov, A. Krasznahorkay, A. A. Kuznetsov, C. Mazzocchi, V.N. Orlin, N. Pietralla, M. Sin, C. Spitaleri, K.A. Stopani, O. Tesileanu, C.A. Ur, I. Ursu, H. Utsunomiya, V.V. Varlamov, H.R. Weller, N.V. Zamfir, and A. Zilges  
*Perspectives for photonuclear research at the Extreme Light Infrastructure - Nuclear Physics (ELI-NP) facility*  
2<sup>nd</sup> Int. Workshop on Perspectives on Nuclear Data for the Next Decade “P(ND)<sup>2</sup>-2”, Oct. 14-17, 2014, Bruyeres-la-Chatel, France  
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65. C. Sotty, M. Zielińska, G. Georgiev, D. L. Balabanski, A. E. Stuchbery, A. Blazhev, N. Bree, R. Chevrier, S. Das Gupta, J. M. Daugas, T. Davinson, H. De Witte, J. Diriken, L. P. Gaffney, K. Geibel, K. Hadyńska-Klek, F. G. Kondev, J. Konki, T. Kröll, P. Morel, P. Napiorkowski, J. Pakarinen, P. Reiter, M. Scheck, M. Seidlitz, B. Siebeck, G. Simpson, H. Törnqvist, N. Warr, and F. Wenander  
*<sup>97</sup><sub>37</sub>Rb<sub>60</sub>: The Cornerstone of the Region of Deformation around A ~ 100*  
**Phys. Rev. Lett. 115, 209902 (2015)**
66. S. Bottoni, S. Leoni, B. Fornal, R. Raabe, K. Rusek, G. Benzoni, A. Bracco, F.C.L. Crespi, A. I. Morales, P. Bednarczyk, N. Cieplicka-Oryńczak, W. Królas, A. Maj, B. Szpak, M. Callens, J. Bouma, J. Elseviers, H. De Witte, F. Flavigny, R. Orlandi, P. Reiter, M. Seidlitz, N. Warr, B. Siebeck, S. Hellgartner, D. Mücher, J. Pakarinen, M. Vermeulen, C. Bauer, G. Georgiev, R.V.F. Janssens, D. Balabanski, M. Sferrazza, M. Kowalska, E. Rapisarda, D. Voulot, M. Lozano Benito, F. Wenander  
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**Phys. Rev. C 92, 024322 (2015)**
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Kowalska, Kim Kreim, Andreas Krieger, Rainer Neugart, Gerda Neyens, Mustafa M. Rajabali, Wilfried Nortershauser, Jasna Papuga, Deyan T. Yordanov

*Collinear laser spectroscopy of atomic cadmium: Extraction of nuclear magnetic dipole and electric quadrupole moments*

**Eur. Phys. J. D 69, 164 (2015)**

68. A. Kusoglu, A.E. Stuchbery, G. Georgiev, B. A. Brown, A. Goasduff, L. Atanasova, D.L. Balabanski, M. Bostan, M. Danchev, P. Detistov, K.A. Gladnishki, J. Ljungvall, I. Matea, D. Radeck, C. Sotty, I. Stefan, D. Verney, D. T. Yordanov

*Magnetism of an Excited Self-Conjugate Nucleus: Precise Measurement of the g Factor of the  $2^+_1$  State in  $^{24}\text{Mg}$*

**Phys. Rev. Lett. 114, 062501 (2015)**

**Conference papers (peer refereed journals)**

69. D. L. Balabanski and the ELI-NP Science Team

*Nuclear Physics Studies at ELI-NP*

Proceedings of the International Workshop “Shapes and Dynamics of Atomic Nuclei: Contemporary Aspects (SDANCA-15), Oct. 8-10, 2015, Sofia, Bulgaria

**Bulg. J. Phys. 42, 372–381 (2015)**

70. Dimiter L. Balabanski and the ELI-NP Science Team

*Photofission experiments at the ELI-NP facility*

Proceedings of the Conference on 75 years of Nuclear Fission: Present Status and Future Perspectives (Fission 75), May 8-10, 2014, Mumbai, India

**Pramana – J. Phys. 85, 473-481 (2015)**

71. C.A. Ur, D. Balabanski, G. Cata-Danil, S. Gales, I. Morjan, O. Tesileanu, D. Ursescu, I. Ursu, N.V. Zamfir

*The ELI–NP facility for nuclear physics*

Proc. 6<sup>th</sup> Int. Conference “Channeling 2014: Charged and Neutral Particles Channeling Phenomena”, Oct. 5<sup>th</sup>-10<sup>th</sup>, 2014, Capri, Italy

**Nucl. Instr. Meth. B 355, 198–202 (2015)**

72. C.A. Ur, D. Balabanski, G. Cata-Danil, S. Gales, I. Morjan, O. Tesileanu, D. Ursescu, I. Ursu, N.V. Zamfir

*New Frontiers in Nuclear Physics Research at ELI–NP*

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**Acta Phys. Pol. B 46, 743-752 (2015)**

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73. F. Negoita, M. Gugiu, H. Petrascu, C. Petrone, D. Pietreanu, J. Fuchs, S. Chen, D. Higginson, L. Vassura, F. Hannachi, M. Tarisien, M. Versteegen, P. Antici, D. Balabanski, S. Balascuta, M. Cernaianu, I. Dancus, S. Gales, L. Neagu, C. Petcu, M. Risca, M. Toma, E. Turcu, D. Ursescu

*Perspectives for neutron and gamma spectroscopy in high power laser driven experiments at ELI-NP*

Proceedings of the Carpathian Summer School of Physics: Exotic Nuclei and Nuclear/Particle Astrophysics (V). From Nuclei to Stars, July 13-26, 2014, Sinaya, Romania

**AIP Conf. Proc. 1645, 228-236 (2015)**

74. P. Constantin, D.L. Balabanski, P.V. Cuong

Cryogenic stopping cell for photofission fragments at the ELI-NP facility

**AIP Conf. Proc. 1681, 030002 (2015)**

75. Dimiter L. Balabanski and the ELI-NP Science Team

*Future Experiments with Intense Laser Beams and Brilliant Gamma Beams at the ELI-NP Facility*  
Proceedings of the NUBA Conference Series - 1: Nuclear Physics and Astrophysics, Sept. 15-21,  
2014, Adrasan, Turkey

**J. Phys. Conf. Series 590, 012005 (2015)**

76. Pavel Detistov and Dimiter L. Balabanski

*Monte-Carlo study of the influence of backscattered electrons on the transmission of a mini-orange  $\beta$  spectrometer*

Proceedings of the NUBA Conference Series - 1: Nuclear Physics and Astrophysics, Sept. 15-21,  
2014, Adrasan, Turkey

**J. Phys. Conf. Series 590, 012027 (2015)**

77. A Kusoglu, A.E. Stuchbery, G. Georgiev, A. Goasduff, L. Atanasova, D.L. Balabanski, M. Bostan, M. Danchev, P. Detistov, K. Gladnishki, J. Ljungvall, I. Matea, D. Radeck, C. Sotty, I. Stefan, D. Verney, D.T. Yordanov

*Nuclear g-factor measurement with time-dependent recoil in vacuum in radioactive-beam geometry*

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2014, Adrasan, Turkey

**J. Phys. Conf. Series 590, 012041 (2015)**

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78. N. Blasi, L. Atanasova, D. Balabanski, S. Das Gupta, K. Gladinski, L. Guerro, S. Nardelli, A. Saltarelli  
*E0 decay from the first  $0^+$  state in  $^{156}\text{Dy}$  and  $^{160}\text{Er}$*

**Phys. Rev. C 90, 044317 (2014)**

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79. Dimiter L. Balabanski and the ELI-NP Science Team

Physics studies with brilliant narrow-width  $\gamma$ -beams at the new ELI-NP Facility

Proceedings of the DAE Symposium on Nuclear Physics, Dec. 2-6, 2013, Mumbai, India

**Pramana – J. Phys. 83, 713-718 (2014)**

80. S. Bottoni, S. Leoni, B. Fornal, R. Raabe, G. Benzoni, A. Bracco, F.C.L. Crespi, A. Morales, B. Bednarczyk, N. Cieplicka, W. Królas, A. Maj, B. Szpak, M. Callens, J. Bouma, J. Elseviers, F. Falvigny, R. Orlandi, K. Rusek, P. Reiter, M. Seidlitz, S. Klupp, D. Múcher, G. Georgiev, D. Balabanski, M. Sferrazza, M. Kowalska, E. Rapisarda

*$\gamma$  Spectroscopy of Neutron-rich Nuclei with  $A \approx 100$  Produced by Cluster Transfer Reactions at REX-ISOLDE*

Proceeding of the XXXIV<sup>th</sup> Mazurian Lakes Conference on Physics: Frontiers in Nuclear Physics,  
Sept. 6-13, 2013, Piaski, Poland

**Acta Phys. Pol.B 45, 343-347 (2014)**

81. D.L. Balabanski, G. Cata-Danil, D. Filipescu, S. Gales, O. Tesileanu, C.A. Ur, I. Ursu, N.V. Zamfir

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Proceeding of the XXXIV Mazurian Lakes Conference on Physics: Frontiers in Nuclear Physics,  
Sept. 6-13, 2013, Piaski, Poland

**Acta Phys. Pol.B 45, 383-390 (2014)**

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82. D. L. Balabanski, G. Cata-Danil, D. Filipescu, S. Gales, F. Negoita, O. Tesileanu, C. A. Ur, I. Ursu, N. V. Zamfir, and the ELI-NP Science Team

*Towards experiments at the new ELI-NP facility*

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**EPJ Web of Conferences 78, 06001 (2014)**

83. S. Bönig, S. Ilieva, T. Kröll, M. Scheck, D. Balabanski, C. Bauer, A. Blazhev, T. Bloch, D. Deleanu, J. Diriken, P. Fernier, R. Gernhäuser, K. Hadynska-Klek, A. Jungclaus, R. Lutter, A. Negret, K. Nowak, R. Orlandi, J. Pakarinen, G. Rainovski, T.R. Rodríguez, M. von Schmid, M. Seidlitz, B. Siebeck, G.S. Simpson, A. Illana Sisón, R. Stegmann, T. Stora, P.G. Thirolf, M. Thürauf, M.J. Vermeulen, D. Voulot, N. Warr, F. Wenander, H. De Witte, and MINIBALL Collaboration

*Quadrupole collectivity in neutron-rich Cd isotopes*

Proceedings of the International Nuclear Physics Conference, June 2-7, 2013, Florence, Italy

**EPJ Web of Conferences 66, 02012 (2014)**

## 2013

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84. D. T. Yordanov, D. Balabanski, J. Bieron, M. Bissell, K. Blaum, I. Budinčević, S. Fritzsche, N. Frömmgen, G. Georgiev, Ch. Geppert, M. Hammen, M. Kowalska, K. Kreim, A. Krieger, R. Neugart, W. Nörtershäuser, J. Papuga, and S. Schmidt,

*Spins, Electromagnetic Moments and Isomers in  $^{107-129}\text{Cd}$*

**Phys. Rev. Lett. 110, 192501(2013)**

85. D. Deleanu, D. L. Balabanski, Ts. Venkova, D. Bucurescu, N. Mărginean, E. Ganioglu, Gh. Căta-Danil, L. Atanasova, I. Căta-Danil, P. Detistov, D. Filipescu, D. Ghiță, T. Glodariu, M. Ivașcu, R. Mărginean, C. Mihai, A. Negret, S. Pascu, T. Sava, L. Stroe, G. Suliman, and N. V. Zamfir

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**Phys. Rev. C 87, 014329 (2013)**

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86. H. Törnqvist, C. Sotty, D. Balabanski, A. Dhal, G. Georgiev, M. Hass, A. Heinz, Y. Hirayama, N. Imai, H. Johansson, M. Kowalska, A. Kusoglu, T. Nilsson, A. Stuchbery, F. Wenander, D.T. Yordanov

*Tilted foils polarization at REX-ISOLDE*

Proceedings of the XVI<sup>th</sup> International Conference on Electromagnetic Isotope Separators and Techniques Related to their Applications, December 2–7, 2012, Matsue, Japan

**Nucl. Instr. Meth. B 317, 685–688(2013)**

87. Y. Ichikawa, H. Ueno, Y. Ishii, T. Furukawa, A. Yoshimi, D. Kameda, H. Watanabe, N. Aoi, K. Asahi, D.L. Balabanski, R. Chevrier, J.M. Daugas, N. Fukuda, G. Georgiev, H. Hayashi, H. Iijima, N. Inabe, T. Inoue, M. Ishihara, T. Kubo, T. Nanao, T. Ohnishi, K. Suzuki, M. Tsuchiya, H. Takeda, and M.M. Rajabali

*Spin-aligned RI beams via two-step fragmentation reactions*

Proceedings of the XVI<sup>th</sup> International Conference on Electromagnetic Isotope Separators and Techniques Related to their Applications, December 2–7, 2012, Matsue, Japan

**Nucl. Instr. Meth. B 317, 769–773 (2013)**

88. D. R. Atanasov, D. Balabanski, L. Batist, K. Blaum, F. Bosch, D. Boutin, C. Brandau, C. Dimopoulou, H. G. Essel, T. Faestermann, H. Geissel, S. Hagmann, R. Hess, P.-M. Hillenbrand, P. Kienle, R. Knobel, C. Kozhuharov, J. Kurcewicz, M. Lestinsky, S. A. Litvinov, Yu. A. Litvinov, X. Ma, R. Martin, M. Mazzocco, G. Munzenberg, F. Nolden, T. Ohtsubo, Z. Patyk, M. S. Sanjari, C. Scheidenberger, D. Shubina, U. Spillmann, M. Steck, Th. Stohlker, B. Sun, T. Suzuki, S. Torilov, M. Trassinelli, S. Trotsenko, X. Tu, I. I. Tupitsyn, H. Weick, N. Winckler, M. Winkler, D. F. A. Winters, N. Winters, H. Xu, T. Yamaguchi, X. Yan, Y. Yuan, and Y. Zhang

*Half-life measurements of highly charged radionuclides*

Proceedings of the 16<sup>th</sup> International Conference on Physics of Highly Charged Ions (HCI),  
September 2-7, 2012, Heidelberg, Germany

**Phys. Scr. T156, 014026 (2013)**

89. Y. Ichikawa, H. Ueno, Y. Ishii, T. Furukawa, A. Yoshimi, D. Kameda, H. Watanabe, N. Aoi, K. Asahi, D.L. Balabanski, R. Chevrier, J.M. Daugas, N. Fukuda, G. Georgiev, H. Hayashi, H. Iijima, N. Inabe, T. Inoue, M. Ishihara, T. Kubo, T. Nanao, T. Ohnishi, K. Suzuki, M. Tsuchiya, H. Takeda, and M.M. Rajabali

*Novel method for the production of spin-aligned RI beams in projectile fragmentation reaction with the dispersion matching technique*

Proceedings of the 4<sup>th</sup> Joint International Conference International Conference on Hyperfine Interactions / International Symposium on Nuclear Quadrupole Interactions (HFI/NQI),  
September 10–14, 2012, Beijing, China

**Hyperfine Int. 220:47–51 (2013)**

**Conference papers (books)**

90. H. Ueno, Y. Ichikawa, Y. Ishii, T. Furukawa, A. Yoshimi, D. Kameda, H. Watanabe, N. Aoi, K. Asahi, D.L. Balabanski, R. Chevrier, J.M. Daugas, N. Fukuda, G. Georgiev, H. Hayashi, H. Iijima, N. Inabe, T. Inoue, M. Ishihara, T. Kubo, T. Nanao, T. Ohnishi, K. Suzuki, M. Tsuchiya, H. Takeda, and M.M. Rajabali

*Novel method for the production of spin-aligned RI beams in projectile fragmentation reaction with the dispersion matching technique*

Proceedings of the French-Japanese Symposium on Nuclear Structure Problems, January 5-8, 2011, Wako, Japan, eds. H. Otsu, T. Motobayashi, P. Roussel-Chomaz, and T. Otsuka

**(World Scientific, Singapore, 2013) pp. 40-45**

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91. R. Chevrier, J. M. Daugas, L. Gaudefroy, Y. Ichikawa, H. Ueno, M. Hass, H. Haas, S. Cottenier, N. Aoi, K. Asahi, D. L. Balabanski, N. Fukuda, T. Furukawa, G. Georgiev, H. Hayashi, H. Iijima, N. Inabe, T. Inoue, M. Ishihara, Y. Ishii, D. Kameda, T. Kubo, T. Nanao, G. Neyens, T. Ohnishi, M. M. Rajabali, K. Suzuki, H. Takeda, M. Tsuchiya, N. Vermeulen, H. Watanabe, and A. Yoshimi

*Nuclear moments of  $\mu$ -second isomeric fragments at BigRIPS*

Proceedings of the French-Japanese Symposium on Nuclear Structure Problems, January 5-8, 2011, Wako, Japan, eds. H. Otsu, T. Motobayashi, P. Roussel-Chomaz, and T. Otsuka

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**Proc. SPIE 8780, 87801H (2013)**