

Publication list 2006

1. Physical Review Letters 96, 122501 (2006)

Stabilization of nuclear isovector valence-shell excitations

G. Rainovski, N. Pietralla, T. Ahn, C.J. Lister, R.V.F. Janssens, M.P. Carpenter, S. Zhu, C.J. Barton III

2. Physical Review C 74, 067301 (2006)

Lifetime measurement for the 2^+_1 state of ^{170}Hf

A. Costin, T. Ahn, B. Bochev, K. Dusling, T. C. Li, N. Pietralla, G. Rainovski, W. Rother

3. Physical Review C 74, 034309 (2006)

Quadrupole moment of the 8^+ yrast state in ^{84}Kr

R. Schwengner, D. L. Balabanski, G. Neyens, N. Benouaret, D. Borremans, N. Coulier, M. De Rydt, G. Georgiev, S. Mallion, G. Rainovski, G. Rusev, S. Teughels, and K. Vyvey

4. Physical Review C 73, 054306 (2006)

First evidence for spin-flip M1 strength in ^{40}Ar

T.C. Li, N. Pietralla, A.P. Tonchev, M.W. Ahmed, T. Ahn, C. Angell, M.A. Blackston, A. Costin, K.J. Keeter, J. Li, A. Lisetskiy, S. Mikhailov, Y. Parpottas, B.A. Perdue, G. Rainovski, W. Tornow, H.R. Weller, Y.K. Wu

5. Phys. Scr. T125, 108 (2006)

Charged particle feeding of hyperdeformed nuclei in the $A=118-126$ region

B. Herskind, G.B. Hagemann, G. Sletten, Th. Døssing, C. Rønn Hansen, N. Schunck, S. Ødegård, H. Hübel, P. Bringel, A. Bürger, A. Neusser, A.K. Singh, A. Al-Khatib, S.B. Patel, A. Bracco, S. Leoni, F. Camera, G. Benzoni, P. Mason, A. Paleni, B. Million, O. Wieland, P. Bednarczyk, F. Azaiez, Th. Byrski, D. Curien, O. Dakov, G. Duchene, F. Khalfallah, B. Gall, L. Piqeras, J. Robin, J. Dudek, N. Rowley, B.M. Nyak'oo, A. Algora, Z. Dombradi, J. Gal, G. Kalinka, D. Sohler, J. Molnár, J. Timár, L. Zolnai, K. Juhász, N. Redon, F. Hannachi, J.N. Scheurer, J.N. Wilson, A. Lopez-Martens, A. Korichi, K. Hauschild, J. Rocaaz, S. Siem, P. Fallon, I.Y. Lee, A. Görgen, A. Maj, M. Kmiecik, M. Brekiesz, J. Styczen, K. Zuber, J.C. Lisle, B. Cederwall, K. Lagergren, A.O. Evans, G. Rainovski, G. De Angelis, G. La Rana, R. Moro, W. Gast, R.M. Lieder, E. Podsvirova, H. Jäger, C.M. Petrache, D. Petrache

6. Phys.Lett. B 632, 203 (2006)

“High angular momentum states populated in fragmentation reactions”

Zs.Podolyak, J.Gerl, M.Hellstrom, F.Becker, **K.A.Gladnishki**, M.Gorska, A.Kelic, Y.Kopatch, S.Mandal, P.H.Regan, K.-H.Schmidt, P.M.Walker, H.J.Wollersheim, A.Banu, G.Benzoni, H.Boardman, E.Casarejos, J.Ekman, H.Geissel, H.Grawe, D.Hohn, I.Kojouharov, J.Leske, R.Lozeva, M.N.Mineva, G.Neyens, R.D.Page, C.J.Pearson, M.Portillo, D.Rudolph, N.Saito, H.Schaffner, D.Sohler, K.Summerer, J.J.Valiente-Dobon, C.Wheldon, H.Weick, M.Winkler

7. Int. J. Mod. Phys. E 15, 1735 (2006)

“Evidence for X(5) critical point symmetry in ^{128}Ce ”

D.L.Balabanski, **K.A.Gladniski**, G.Lo Bianco, A.Saltarelli, N.V.Zamfir, E.A.McCutchan, H.Ai, R.F.Casten, A.Hainz, D.A.Meyer, C.Plettner, J.Qian, V.Werner, E.Williams, B.Akkus, L.Amon, R.B.Cakirli, M.N.Erduran, Y.Oktem, S.F.Ashley, P.H.Regan, G.Rainovski

8. Int. J. Mod. Phys. E 15, 1505 (2006)

“First use of post-accelerated isomeric beams for Coulomb excitation studies of odd-odd nuclei around $N=40$ ”

G.Georgiev, I.Stefanescu, D.L.Balabanski, P.A.Butler, J.Cederkall, T.Davinson, P.Delahaye, V.N.Fedosseev, L.M.Fraile, S.Franchoo, **K.Gladnishki**, M.Huyse, O.Ivanov, J.Iwanicki, Th.Kroll, U.Koster, A.Lagoyannis, G.Lo Bianco, A.De Maesschalck, A.Saltarelli, T.Sieber, N.Smirnova, P.Van Duppen, N.Warr, F.Wenander, J.Van De Walle and REX-ISOLDE and MINIBALL collaborations

9. Proc. 25th Int. Workshop on Nuclear Theory, Rila Mountains, Bulgaria, 2006, ed. S.Dimitrova (DioMira, Sofia) pp.161-171, 2006)

“g-factor measurement at RISING: The case of ^{127}Sn ”

L.Atanasova, D.L.Balabanski, M.Hass, D.Bazzacco, F.Becker, P.Bednarczyk, G.Benzoni, A.Blazhev, N.Blasi, A.Bracco, C.Brandau, L.Caceres, F.Camera, S.K.Chamoli, S.Chmel, F.C.L.Crespi, P.Detistov, P.Doornenbal, C.Fahlander, E.Farnea, G.Georgiev, J.Gerl, **K.Gladnishki**, M.Gorska, H.Grawe, J.Grebosz, R.Hoischen, G.Ilie, M.Ionescu-Bujor, A.Iordachescu, A.Jungclaus, G.Lo Bianco, M.Kmiecik, I.Kojouharov, N.Kurz, S.Lakshmi, R.Lozeva, A.Maj, D.Montanari, G.Neyens, M.Pfutzner, S.Pietri, Zs.Podolyak, W.Prokopowicz, G.Rusev, D.Rudolph, T.R.Saito, A.Saltarelli, H.Schaffner, R.Schwengner, G.Simpson, S.Tashenov, J.J.Valiente-Dobon, N.Vermeulen, J.Walker, E.Werner-Malento, O.Wieland, H.J.Wollersheim

10. Exotic Nuclei and Nuclear/Particle Astrophysics, 484 (2006)

Rare isotopes investigations at GSI (rising) using relativistic ion beams

J. Jolie, G. Ilie, P. Reiter, A. Richard, A. Scherillo, T. Striepling, N. Warr, A. Banu, F. Becker, P. Bednarczyk, P. Doornenbal, J. Gerl, H. Grawe, M. Gorska, R. Grzywacz, I. Kojucharov, S. Mandal, N. Saitoh, T. Saitoh, H.J. Wollersheim, S. Mallion, G. Neyens, K. Turzo, P. Van Duppen, N. Vermeulen, Zs. Podolyak, W. Gelletly, P.H. Regan, P.M. Walker, W.N. Catford, Z. Liu, S. Williams, A. Blazhev, R. Lozeva, P. Detistov, L. Atanasova, G. Damyanova, D. Cortina Gil, J. Benlliure, T. Kurtukian Nieto, E. Caserejos, J.M. Daugas, G. Belier, V. Meot, O. Roig, G. Simpson, I.S. Tsekhanovich, I. Matea, R. Schwengner, M. Hass, B.S. Nara Singh, S.K. Chamoli, G. Goldring, I. Regev, S. Vaintraub, D.L. Balabanski, G. Lo Bianco, **K. Gladnishki**, A. Saltarelli, C. Petrache, G. Benzoni, N. Blasi, A. Bracco, F. Camera, B. Million, S. Leoni, O. Wieland, A. Maj, M. Kmiecik, J. Grebosz, P. Bednarczyk, J. Styczen, M. Lach, W. Meczynski, K. Mazurek, M. Pfutzner, A. Korgul, M. Ionescu-Bujor, A. Iordachescu, V. Zamfir, A. Jungclaus, G. Georgiev, D.M. Cullen, S.J. Freeman, A.G. Smith, R. Orlandi, R.M. Clark, M.A. Bentley, G. Hammond, R. Wadsworth, A. Buerger, H. Hübel, D. Rudolph, C. Fahlander, J. Simpson, R.D. Herzberg, R.D. Page, P. Nolan, T. Davidson, P. Woods, A.M. Bruce, T. Faestermann, R. Kruecken, H. Mach, A. Rubio, A. Algorta

11. LNL Annual Report, p.31 (2006)

“Shape coexistence in neutron-deficient Pb nuclei probed by quadrupole moment measurements”

M. Ionescu-Bujor, A. Iordachescu, N. Marginean, C.A. Ur, G. Suliman, D. Bucurescu, D.L. Balabanski, F. Brandolini, S. Chmel, **K.A. Gladnishki**, H. Hübel, R. Marginean, D.R. Napoli, G. Neyens

12. Physical Review C 74, 014305 (2006)

Competition between collective and noncollective excitation modes at high spin in ^{124}Ba

A. Al-Khatib, A.K. Singh, H. Hübel, P. Bringel, A. Burger, J. Domscheit, A. Neusser-Neffgen, G. Schonwasser, G.B. Hagemann, C.R. Hansen, B. Herskind, G. Sletten, J.N. Wilson, J. Timar, A. Algorta, Zs. Dombradi, J. Gal, G. Kalinka, J. Molnar, B.M. Nyako, D. Sohler, L. Zolnai, R.M. Clark, M. Cromaz, P. Fallon, I.Y. Lee, A.O. Macchiavelli, D. Ward, H. Amro, W.C. Ma, M. Kmiecik, A. Maj, J. Styczen, K. Zuber, K. Hauschild, A. Korichi, A. Lopez-Martens, J. Roccoz, S. Siem, F. Hannachi, J.N. Scheurer, P. Bednarczyk, Th. Byrski, D. Curien, O. Dorvaux, G. Duchene, B. Gall, F. Khalfallah, I. Piqueras, J. Robin, A. Gorgen, K. Juhasz, S.B. Patel, A.O. Evans, **G. Rainovski**, G. Benzoni, A. Bracco, F. Camera, S. Leoni, P. Mason, B. Million, A. Paleni, R. Sacchi, O. Wieland, C.M. Petrache, D. Petrache, G. La Rana, R. Moro, G. De Angelis, J.C. Lisle, B. Cederwall, K. Lagergren, R.M. Lieder, E. Podsvirova, W. Gast, H. Jager, N. Redon

13. Physical Review C 73, 014317 (2006)

Medium-spin g-ray spectroscopy of transitional nucleus ^{160}Er

K. Dusling, N. Pietralla, **G. Rainovski**, T. Ahn, B. Bochev, A. Costin, T. Koike, T. C. Li, A. Linnemann, S. Pontillo, and C. Vaman

14. Eur.Phys.J. A 27, Supplement 1, 201 (2006)

Study of fission fragments produced by $^{14}\text{N} + ^{235}\text{U}$ reaction

M. Yalcinkaya, E. Ganioglu, M. N. Erduran, B. Akkus, M. Bostan, G. Gurdal, S. Erturk, D. Balabanski, G. Rainovski, **M. Danchev**, R. Dragomirova, A. Minkova, K. Vyvey, R. Beetge, R. W. Fearick, G. K. Mabala, D. G. Roux, W. Whittaker, B. R. S. Babu, J. J. Lawrie, S. Naguleswaran, R. T. Newman, C. Rigolet, J. V. Pilcher, F. D. Smith, J. F. Sharpey-Schafer

15. Phys.Rev. C 73, 024316 (2006)

Systematics of isomeric configurations in $N = 77$ odd- Z isotones near the proton drip line

M. N. Tantawy, C. R. Bingham, K. P. Rykaczewski, J. C. Batchelder, W. Krolas, **M. Danchev**, D. Fong, T. N. Ginter, C. J. Gross, R. Grzywacz, K. Hagino, J. H. Hamilton, D. J. Hartley, M. Karny, K. Li, C. Mazzocchi, A. Piechaczek, A. V. Ramayya, K. Rykaczewski, D. Shapira, A. Stolz, J. A. Winger, C.-H. Yu, E. F. Zganjar

16. Phys.Scr. T125, 123 (2006)

Observation of states beyond band termination in $^{156,157,158}\text{Er}$ and strongly deformed structures in $^{173,174,175}\text{Hf}$

M. A. Riley, M. K. Djongolov, A. O. Evans, D. J. Hartley, R. V. F. Janssens, E. S. Paul, A. Pipidis, J. Simpson, A. A. Aguilar, D. E. Appelbe, C. R. Bingham, D. B. Campbell, M. P. Carpenter, P. Chowdhury, P. T. W. Choy, R. M. Clark, M. Cromaz, D. M. Cullen, **M. Danchev**, G. D. Dracoulis, P. Fallon, A. Gorgen, G. B. Hagemann, D. T. Joss, J. Goon, R. A. Kaye, T. L. Khoo, F. G. Kondev, R. W. Laird, K. Lagergren, T. Lauritsen, A. O. Macchiavelli, B. McClain, E. F. Moore, G. Mukherjee, E. Ngijoi-Yogo, P. J. Nolan, H. I. Park, L. L. Riedinger, G. Sletten, S. K. Tandel, P. M. Walker, D. Ward, I. Ragnarsson, F. Saric, J. Zhang

17. Phys.Rev. C 74, 054314 (2006)

Multiple band structures in ^{169}Ta

D.J.Hartley, W.H.Mohr, J.R.Vanhoy, M.A.Riley, A.Aguilar, C.Teal, R.V.F.Janssens,
M.P.Carpenter, A.A.Hecht, T.Lauritsen, E.F.Moore, S.Zhu, F.G.Kondev,
M.K.Djongolov, **M.Danchev**, L.L.Riedinger, G.B.Hagemann, G.Sletten, P.Chowdhury,
S.K.Tandel, W.C.Ma, S.W.Odegard