

Publication list 2005

1. J. Phys. G: Nucl. Part. Phys. 31 S1559S1562, (2005)

“Lifetime measurements in the yrast magnetic rotational band in ^{193}Pb ”

K.A.Gladnishki, D.L.Balabanski, P.Petkov, A.Dewald, D.Tonev, M.Axiotis, A.Fitzler, M.Danchev, S.Harissopoulos, S.Lalkovski, N.Marginean, T.Martinez, O.Moeller, G.Neyens, A.Spyrou, E.A.Stefanova, C.Ur

2. Physical Review C 72, 064315 (2005)

Evidence for octupole correlations in $^{124,125}\text{Ba}$

P. Mason, G. Benzoni, A. Bracco, F. Camera, B. Million, O. Wieland, S. Leoni, A. K. Singh, A. Al-Khatib, H. Hübel, P. Bringel, A. Bürger, A. Neusser, G. Schönwasser, B. M. Nyakó, J. Timár, A. Algora, Zs. Dombrádi, J. Gál, G. Kalinka, J. Molnár, D. Sohler, L. Zolnai, K. Johász, G. B. Hagemann, C. R. Hansen, B. Herskind, B. Sletten, M. Kmiecik, A. Maj, J. Styczen, K. Zuber, F. Azaiez, K. Hauschild, A. Korichi, A. Lopez-Martens, J. Rocaaz, S. Siem, F. Hannachi, J. N. Scheurer, P. Bednaraczyk, Th. Byrski, D. Curien, O. Dorvaux, G. Duchêne, B. Gall, F. Khalfallah, I. Piqueras, J. Robin, S. B. Patel, O. A. Evans, G. Rainovski, C. M. Petrache, D. Petrache, G. La Rana, R. Moro, G. De Angelis, P. Fallon, I.-Y. Lee, J. C. Lisle, B. Cederwall, K. Lagergen, R. M. Lieder, E. Podsvirova, W. Gast, H. Jäger, N. Redon, and A. Gørgen

3. Physical Review C 72, 054305 (2005)

Subnanosecond lifetime measurement for the $T=0,3$ state of odd-odd $N = Z^{58}\text{Cu}$

A. Costin, N. Pietralla, T. Koike, C. Vaman, T. Ahn, and G. Rainovski

4. Physical Review C 72, 029801 (2005)

Comment on "Probing nuclear structure of ^{124}Xe "

G. Rainovski, D. L. Balabanski, and V. I. Dimitrov

5. J. Phys. G: Nucl. Part. Phys. 31 No 10 (October 2005) S1741-S1746

Recent progress on the investigation of spontaneous formation of chirality in rotating nuclei

T Koike, K Starosta, P Joshi, **G Rainovski**, J Timár, C Vaman and R Wadsworth

6. J. Phys. G: Nucl. Part. Phys. 31 No 10 (October 2005) S1895-S1898

Evidence for a new region of chirality around $A \sim 104$

P Joshi, S Finnigan, D B Fossan, T Koike, E S Paul, **G Rainovski**, K Starosta, C Vaman and R Wadsworth

7. J. Phys. G: Nucl. Part. Phys. 31 No 10 (October 2005) S1563-S1568

RDM lifetime measurements in ^{107}Cd

K Andgren, S F Ashley, P H Regan, E A McCutchan, N V Zamfir, L Amon, R B Cakirli, R F Casten, R M Clark, G Gürdal, K L Keyes, D A Meyer, M N Erduran, A Papenberg, N Pietralla, C Plettner, **G Rainovski**, R V Ribas, N J Thomas, J Vinson, D D Warner, V Werner and E Williams

8. Physical Review C 71, 064302 (2005)

High-spin structure of ^{102}Ru

D. Sohler, J. Timár, **G. Rainovski**, P. Joshi, K. Starosta, D. B. Fossan, J. Molnár, R. Wadsworth, A. Algora, P. Bednarczyk, D. Curien, Zs. Dombrádi, G. Duchene, A. Gizon, J. Gizon, D. G. Jenkins, T. Koike, A. Krasznahorkay, E. S. Paul, P. M. Raddon, J. N. Scheurer, A. J. Simons, C. Vaman, A. R. Wilkinson, L. Zolnai

9. Physical Review C 71, 054309 (2005)

Highest spin discrete levels in $^{131,132}\text{Ce}$: Spin generation near the mesoscopic limit

E. S. Paul, P. T. W. Choy, C. Andreoiu, A. J. Boston, A. O. Evans, C. Fox, S. Gros, P. J. Nolan, **G. Rainovski**, J. A. Sampson, H. C. Scraggs, A. Walker, D. E. Appelbe, D. T. Joss, J. Simpson, J. Gizon, A. Astier, N. Buforn, A. Prévost, N. Redon, O. Stézowski, B. M. Nyakó, D. Sohler, J. Timár, L. Zolnai, D. Bazzacco, S. Lunardi, C. M. Petrache, P. Bednarczyk, D. Curien, N. Kintz, and I. Ragnarsson

10. Physical Review C 71, 044318 (2005)

One-phonon $2^+_{1,ms}$ mixed –symmetry state of ^{148}Sm observed in nuclear resonance fluorescence

T.C. Li, N. Pietralla, C. Fransen, H. von Garrel, U. Kneissl, C. Kohstall, A. Linnemann, H.H. Pitz, **G. Rainovski**, A. Richter, M. Scheck, F. Stedile, P. von Brentano, P. von Neumann-Cosel, V. Werner

11. Physical Review C 71, 034318(2005)

“Quasi-? band and odd-even staggering effect in ^{102}Ru ”

S. Lalkovski, **G. Rainovski**, K. Starosta, M. P. Carpenter, D. B. Fossan, S. Finnigan, S. Ilieva, P. Joshi, T. Koike, E. S. Paul, N. Pietralla, C. Vaman, and R. Wadsworth

12. Acta Physica Polonica B36, 1029 (2005)

High-spin states in ^{124}Ba

A. Al-Khatib, A.K. Singh, H. Hubel, P. Bringel, A. Burger, A. Neusser, G. choenwasser, G.B. Hagemann, C.R. Hansen, B. Herskind, G. Sohler, J. Timar, L. Zolnai, M. Kmiecik, A. Maj, J. Styczen, K. Zuber, K. Hauschild, A. Korichi, A. Lopez-Martens, J. Roccaz, 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, K. Juhasz, S.B. Patel, A.O. Evans, **G. Rainovski**, A. Airoidi, G. Benzoni, A. Bracco, F. Camera, B. Million, P. Mason, A. Paleni, R. Sacchi, O. Wieland, C.M. Petrache, D. Petrache, G. La Rana, R. Moro, G. De Angelis, P. Fallon, I.-Y. Lee, J.C. Lisle, B. Cederwall, K. Lagergren, R.M. Lieder, E. Podsvirova, W. Gast, H. Jaeger, N. Redon, A. Gorgen

13. Acta Physica Polonica B 36, 1033 (2005)

Search for hyperdeformation in light Xe nuclei

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

14. The European Physical Journal A 24, 23 (2005)

First evidence for chirality in Tc isotopes: Spectroscopy of ^{100}Tc

P. Joshi, A.R. Wilkinson, T. Koike, D.B. Fossan, S. Finnigan, E.S. Paul, P.M. Raddon, **G. Rainovski**, K. Starosta, A.J. Simons, C. Vaman, R. Wadsworth

15. Eur.Phys.J. A 25, Supplement 1, 395 (2005)

Coulomb excitation of odd-A neutron-rich radioactive beams

C.-H. Yu, C.Baktash, J.C.Batchelder, J.R.Beene, C.Bingham, **M.Danchev**, A.Galindo-Uribarri, C.J.Gross, P.A.Hausladen, W.Krolas, J.F.Liang, E.Padilla, J.Pavan, D.C.Radford

16. Eur.Phys.J. A 25, Supplement 1, 205 (2005)

First nuclear moment measurement with radioactive beams by recoil-in-vacuum method: g-factor of the 2^+_1 state in ^{132}Te

N.J.Stone, A.E.Stuchbery, **M.Danchev**, J.Pavan, C.L.Timlin, C.Baktash, C.Barton, J.R.Beene, N.Benczer-Koller, C.R.Bingham, J.Dupak, A.Galindo-Uribarri, C.J.Gross, G.Kumbartzki, D.C.Radford, J.R.Stone, N.V.Zamfir

17. Phys.Rev.Lett. 94, 192501 (2005)

First Nuclear Moment Measurement with Radioactive Beams by the Recoil-in-Vacuum Technique: The g Factor of the 2^+_1 State in ^{132}Te

N.J.Stone, A.E.Stuchbery, **M.Danchev**, J.Pavan, C.L.Timlin, C.Baktash, C.Barton, J.Beene, N.Benczer-Koller, C.R.Bingham, J.Dupak, A.Galindo-Uribarri, C.J.Gross, G.Kumbartzki, D.C.Radford, J.R.Stone, N.V.Zamfir

18. J.Phys.(London) G31, S1735 (2005)

Beyond band termination in ^{157}Er and the search for wobbling excitations in strongly deformed ^{174}Hf

M.A.Riley, M.K.Djongolov, A.O.Evans, D.J.Hartley, R.V.F.Janssens, E.S.Paul, 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, A.Pipidis, L.L.Riedinger, G.Sletten, S.K.Tandel, P.M.Walker, D.Ward, I.Ragnarsson, F.Saric, J.Zhang

19. Eur.Phys.J. A 25, Supplement 1, 383 (2005)

Coulomb excitation and transfer reactions with neutron-rich radioactive beams

D.C.Radford, C.Baktash, C.J.Barton, J.Batchelder, J.R.Beene, C.R.Bingham, M.A.Caprio, **M.Danchev**, B.Fuentes, A.Galindo-Uribarri, J.Gomez del Campo, C.J.Gross, M.L.Halbert, D.J.Hartley, P.Hausladen, J.K.Hwang, W.Krolas, Y.Larochelle, J.F.Liang, P.E.Mueller, E.Padilla, J.Pavan, A.Piechaczek, D.Shapira, D.W.Stracener, R.L.Varner, A.Woehr, C.-H.Yu, N.V.Zamfir

20. Nucl.Phys. A752, 264c (2005)

Coulomb excitation and transfer reactions with rare neutron-rich isotopes

D.C.Radford, C.Baktash, C.J.Barton, J.Batchelder, J.R.Beene, C.R.Bingham, M.A.Caprio, **M.Danchev**, B.Fuentes, A.Galindo-Uribarri, J.Gomez del Campo, C.J.Gross, M.L.Halbert, D.J.Hartley, P.Hausladen, J.K.Hwang, W.Krolas, Y.Larochelle, J.F.Liang, P.E.Mueller, E.Padilla, J.Pavan, A.Piechaczek, D.Shapira, D.W.Stracener, R.L.Varner, A.Woehr, C.-H.Yu, N.V.Zamfir

21. Phys.Rev. C 72, 064325 (2005)

Detailed high-spin spectroscopy and the search for the wobbling mode in ^{171}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

22. Phys.Lett. B 608, 31 (2005)

Wobbling excitations in strongly deformed Hf nuclei?

D.J.Hartley, M.K.Djongolov, L.L.Riedinger, G.B.Hagemann, R.V.F.Janssens, F.G.Kondev, E.F.Moore, M.A.Riley, A.Aguilar, C.R.Bingham, D.B.Campbell, M.P.Carpenter, P.Chowdhury, M.Cromaz, D.M.Cullen, **M.Danchev**, G.D.Dracoulis, P.Fallon, J.Goon, R.A.Kaye, T.L.Khoo, R.W.Laird, T.Lauritsen, A.O.Macchiavelli, B.McClain, G.Mukherjee, E.Ngijoi-Yogo, H.I.Park, G.Sletten, S.K.Tandel, P.M.Walker, J.-Y.Zhang

23. Nucl.Instrum.Methods Phys.Res. B241, 971 (2005)

g-Factor measurements of first 2^+ states of heavy Te isotopes based on nuclear spin deorientation for nuclei recoiling in vacuum

M.Danchev, J.Pavan, N.J.Stone, A.E.Stuchbery, C.Baktash, J.Beene, N.Benczer-Koller, C.R.Bingham, J.Dupak, A.Galindo-Uribarri, C.J.Gross, G.Kumbartzki, D.C.Radford, J.R.Stone, C.L.Timlin, C.-H.Yu, N.V.Zamfir

24. Nucl.Instrum.Methods Phys.Res. B241, 185 (2005)

Nuclear structure studies at the proton drip line via proton radioactivity studies

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

25. Eur.Phys.J. A 25, Supplement 1, 149 (2005)

Study of fine structure in the proton radioactivity of ^{146}Tm

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

26. World Year of Physics 2005: Turkish Physical Society 23rd International Physics Congress, September 13-16, Mugla University, Mugla, Turkey, Özet Kitabı, p. 344.(2005)

“Deformation Driving Effects in ^{191,192}Pt at High Spins”

Y. Oktem, B. Akkus, D.L. Balabanski, C.W. Beausang, M. Bostan, R.F. Casten, **M. Danchev**, M. Djongolov, M.N. Erduran, S. Erturk, **K.A. Gladnishki**, G. Gürdal, J. Goon, D. J. Hartley, A.A. Hecht, R. Krücken, J.R. Novak, G. Rainovski, L.L. Riedinger, I. Yigitoglu, N.V. Zamfir and O. Zeidan

27. Bull.Rus.Acad.Sci.Phys. 69, 714 (2005)

“Detection of β -delayed two-neutron emission from ²³⁸U photofission fragments”

Yu.P.Gangrsky, **K.Gladnishki**, V.I.Zhemenik, G.V.Myshinsky, Yu.E.Penionzhkevich, E.A.Sokol

28. LNL Annual Report, p.18 (2005)

“Lifetime measurements in ¹³⁶Pm”

D. Tonev, Q. Zhong, G. de Angelis, P. Petkov, D. L. Balabanski, L. Atanasova, D. Bazzacco, A. Dewald, F. Della Vedova, E. Farnea, A. Gadea, **K. Gladnishki**, G. Lo Bianco, S. Lenzi, S. Lunardi, N. Marginean, B. Melon, D. Mengoni, R. Menegazzo, D. R. Napoli, M. Nespolo, E. Sahin, A. Saltarelli, J. J. Valiente-Dobon, K. O. Zell

29. AIP Conference Proceedings Volume 831 FRONTIERS IN NUCLEAR STRUCTURE, ASTROPHYSICS, AND REACTIONS – FINUSTAR Isle of Kos (Greece), 12-17 September p. 114-118 (2005)

“Neutron-deficient N~126 nuclei produced in ²³⁸U fragmentation: population of high-spin states”

Zs. Podolyák, J. Gerl, M. Hellström, F. Becker, **K. A. Gladnishki**, M. Górska, A. Keli , 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. Sümmerer, J. J. Valiente-Dobón, C. Wheldon, H. Weick, and M. Winkler