

CURRICULUM VITAE

Dr. Dimiter Loukanov BALABANSKI, Associate Professor in Physics

Date of birth: 29.10.1954, Sofia, Bulgaria

Nationality: Bulgarian

Education:

1975 – 1980: St. Kliment Ohridski University of Sofia, Physics Engineering

1968 – 1973: English Language Secondary School, Sofia

Scientific degrees:

2007: Senior Researcher, INRNE, Bulgarian Academy of Sciences

1996: Associate Professor of Physics, St. Kliment Ohridsky University of Sofia

1993: Ph.D. in Physics, St. Kliment Ohridsky University of Sofia

1980: Nuclear Engineer, St. Kliment Ohridsky University of Sofia

Positions in Bulgaria:

2007: INRNE, Bulgarian Academy of Sciences, Senior Researcher

2004 – 2007: INRNE, Bulgarian Academy of Sciences, Researcher

2004 – 2006: Scientific Research Department, St. Kliment Ohridsky University of Sofia, Researcher

1996 – 2003: Faculty of Physics, St. Kliment Ohridsky University of Sofia, Associate Professor

1985 – 1996: Faculty of Physics, St. Kliment Ohridsky University of Sofia, Assistant Professor

1980 – 1985: Faculty of Physics, St. Kliment Ohridsky University of Sofia, Researcher

Positions abroad:

2007: CSNSM, Orsay, France (CNRS visiting senior researcher, 3 months)

2003 – 2007: University of Camerino, Italy, Professor (4 years position of the Italian Ministry of Education)

1999 – 2002: University of Tennessee, Knoxville, USA, Guest Professor (in total 1 ½ years)

1995 – 2003: University of Leuven, Belgium, Visiting Scholar (fellowships of EC: HPRI-1999-CT50001, NATO, the Ministry of Science and Technologies of Belgium and the Flemish Science Foundation; in total 5 years)

1994 – 1996: University of Milano and INFN-Milano, Italy, Visiting Scientist (INFN fellowships, total ½ year)

1987 – 1993: Visiting Scientist, Forschungszentrum Juelich, Germany (fellowships of IAEA, Vienna and FZ-Juelich, in total 3 ½ years)

Research activities:

Structure of atomic nuclei at high angular momenta

Structure of atomic nuclei away from the stability line

Dynamic symmetries in atomic nuclei

Design of multidetector systems for nuclear spectroscopy

Isotope glaciology (1988 – 2000)

Moessbauer spectroscopy (1980 – 1987)

Applied nuclear physics (1980 – 1987)

Scientific projects:

since 2007: Spriral2 Preparatory Phase project: EC FP7 Spiral2PP (212692); chair of the Bulgarian team and member of the Steering Committee of the PARIS project to construct a 4π scintillator array

since 2003: nuclear data evaluation; IAEA Research Contract No. 12482 (2005 – 2008)

since 2003: chair of the Bulgarian team and member of the Steering Committee of the AGATA project to construct an European gamma-ray tracking array; EC FP6 project RII3 – EURONS: 506065)

2002 – 2004: co-chair of a NATO CLG “New dynamic symmetries in atomic nuclei” (joint research project of the Istanbul and the Bosphoros Universities, Istanbul, Turkey, Yale University, New Haven, USA, NCSR” Demokritos”, Athens, Greece and NIPNE, Bucharest, Romania

since 1995: team leader of *more than 25* experimental projects to study the structure and the symmetries in

atomic nuclei: at the INFN LNL laboratory in Legnaro, Italy (three), the National Accelerator Center iThemba lab, Cape Town, South Africa (three), Yale University, New Haven, USA (four), the ORNL National Laboratory, Oak Ridge, USA (one), the State University of Florida, Tallahassee, USA (one), the CYCLONE accelerator laboratory, Louvain-le-Neuve, Belgium (two), the Australian National University, Canberra, (one), the Tandem laboratory, Orsay, France (three), GSI, Darmstadt, Germany (one), ILL, Grenoble, France (three), GANIL, France (two), the Institute of Modern Physics, Lanzhou, China (one), the Tandem Laboratory, Bucharest, Romania (two) and ATOMKI, Debrecen, Hungary (one)

since 1995: member of the Bulgarian Antarctic Institute: head of the Glaciological Program (1995 – 1998); field work during the 1995, 1996 and 1998 polar campaigns.

1993 – 1994: projects for computerization of the Physics Library of the University of Sofia and setting of a LAN and internet connection of the Faculty of Physics of the University of Sofia (projects with the Open Society Fund, Sofia, Bulgaria)

Scientific papers and conference reports:

Papers in refereed international journals: > 70
Conference papers in refereed international journals: > 30
Papers in conference proceedings: > 30
Papers in Bulgarian journals: > 10
Papers in Laboratory Annual Reports: > 40
Invited seminars: >20
Invited talks at conferences: >10
Plenary talks at conferences and workshops: >40
Citations (SCI): > 900

Lecture courses:

(a) St. Kliment Ohridsky University of Sofia
1995/96: Atomic and Nuclear Physics (for Physics students)
1994/95, 1995/96: Atomic and Nuclear Physics (for Geology students)
1995/96, 1996/97, 1997/98, 2002/03: Nuclear structure (for M.S. students in Nuclear Physics)

(b) University of Camerino, Italy
2003/04, 2004/05: Nuclear spectroscopy

Diploma and Ph.D students:

since 2004: consultant of *three* Ph.D. students at the University of Sofia (two) and at the University of Istanbul (one)

1996 - 2006: adviser of *seven* Ph.D. students at the University of Sofia
2001: defended Georgi Rainovski
2003: defended Miroslav Danchev
2004: defended Kalin Gladnishki
2005: defended Andrej Blazhev
2005: defended Radomira Lozeva

1996 – 2006: referee (jury member) of 6 Ph.D. theses in Bulgaria, Belgium, Germany and Australia
1991 – 2007: adviser of 12 M.S. theses at the University of Sofia and one at the University of Camerino

Serving the scientific society:

2008: member of the International PAC of the FP7-REGPOT-2008-1 LIBRA 210123 project at NCSR "Demokritos", Athens, Greece

2008: chair of the South-eastern European Nuclear Physics Network (SEENet)

2008: co-chair of the European Network of NSDD evaluators

2006: co-chair of an Working Party to study nuclear electromagnetic moments within the SPIRAL2 project, Caen, France

2004: coordinator of an Working Group to study nuclear electromagnetic moments and member of the

Technical Board of the HiSpec/DeSpec project within the NUSTAR collaboration (project FAIR)
2003: member of the Steering Committee of the AGATA project
2002: referee of Physical Review Letters, Physical Review, Journal of Physics and Physics Letters
2002 – 2008: vice-chair of the South-eastern European Nuclear Physics Network (SEENet)
2002: data evaluator with in the NSDD group coordinated by IAEA, Vienna, Austria
2000 – 2003: coordinator of an Working Group for ground-state properties and fundamental interactions within the EURISOL preliminary design study, EC FP5 project HPRI-1999-CT50001
1999: Bulgarian correspondent of Nuclear Physics News Magazine of NuPECC
1998 – 2007: chair or member of the Organizing/Program Committee of *eight* international conferences and workshops
1998: founder and chair/member of the Organizing Committee of the Balkan workshop on Nuclear physics and Applications (Tsigov Chark, Bulgaria – 1999, Edirne, Turkey – 2001, Tirgoviste, Romania – 2002, Constanta, Romania – 2003)
1997: co-founder and member of the Board of Directors of the Balkan School on Nuclear Physics (Istanbul, Turkey – 1998, Bodrum, Turkey – 2000, Thessaloniki, Greece – 2002, Bodrum, Turkey – 2004, Brasov, Romania – 2006, Troyan, Bulgaria – 2008; Milos Island, Greece – 2010)

Languages:

Bulgarian – mother tongue
English – written and spoken
Russian, German, Serbian – use at working level
Italian, Dutch– use with dictionary

List of papers

A. Papers in refereed journals

Physical Review Letters, ISSN: 0031-9007, American Institute of Physics, USA

1. G.Neyens, N.Coulier, S.Teughels, G.Georgiev, B.A.Brown, W.F.Rogers, D.L.Balabanski, R.Coussement, A.Lepine-Szily, M.Lewitowicz, W.Mittig, F.de Oliveira Santos, P.Roussel-Chomaz, S.Ternier, K.Vyvey, D.Cortina-Gil
Magnetic moment of the 1^- ground state in ^{18}N measured with a new β level mixing nuclear magnetic resonance technique
Phys. Rev. Lett. **82**, 497-500 (1999)
2. M.Trotta, J.L.Sida, N.Alanos, A.Andreyev, F.Auger, D.L.Balabanski, C.Borcea, N.Coulier, A.Drouart, D.J.C.Durand, G.Georgiev, A.Gillibert, J.D.Hinnefeld, M.Huyse, C.Jouanne, V.Lapoux, A.Lepine, A.Lumbroso, F.Marie, A.Musumarra, G.Neyens, S.Ottini, R.Raabe, S.Ternier, P.Van Duppen, K.Vyvey, C.Volant, R.Wolski
Large enhancement of the sub-barrier fusion probability for a halo nucleus
Phys. Rev. Lett. **84**, 2342-2345 (2000)
3. D.L.Balabanski, K.Vyvey, G.Neyens, N.Coulier, R.Coussement, G.Georgiev, A.Lepine-Szily, S.Ternier, S.Teughels, M.Mineva, P.M.Walker, P.Blaha, D.Almehed, S.Frauendorf
Static quadrupole moment of the five-quasiparticle $K = 35/2$ isomer in ^{179}W studied with the level-mixing spectroscopy method
Phys. Rev. Lett. **86**, 604-607 (2001)
4. K.Starosta, T.Koike, C.J.Chicara, D.B.Fossan, D.R.LaFosse, A.A.Hecht, C.W.Beausang, M.A.Caprio, J.R.Cooper, R.Krucken, J.R.Novak, N.V.Zamfir, K.E.Zyromski, D.J.Hartley, D.L.Balabanski, J.-Y.Zhang, S.Frauendorf, V.I.Dimitrov
Chiral doublet dtructure in odd-odd $N = 75$ isotones: Chiral vibrations
Phys. Rev. Lett. **86**, 971-974 (2001)
5. K.Vyvey, S.Chmel, G.Neyens, H.Hubel, D.L.Balabanski, D.Borremans, N.Coulier, R.Coussement, G.Georgiev, N.Nenoff, S.Pancholi, D.Rossbach, R.Schwengner, S.Teughels, S.Frauendorf
Quadrupole moment of the 11^- intruder isomer in ^{196}Pb and its implications for the 16 shears band head
Phys. Rev. Lett. **88**, 102502 (2002)
6. L.K.Pattison, D.M.Cullen, J.F.Smith, A.M.Fletcher, P.M.Walker, H.M.El-Masri, Zs.Podolyak, R.J.Wood, C.Scholey, C.Wheldon, G.Mukherjee, D.Balabanski, M.Djongolov, Th.Dalsgaard, H.Thisgaard, G.Sletten, F.Kondev, D.Jenkins, G.J.Lane, I.-Y.Lee, A.O.Macchiavelli, S.Frauendorf, D.Almehed
Multiphonon vibrations at high angular momentum in ^{182}Os
Phys. Rev. Lett. **91**, 182501 (2003)
7. I.Matea, G.Georgiev, J.M.Daugas, M.Hass, G.Neyens, R.Astabatyan, L.T.Baby, D.L.Balabanski, G.Belier, D.Borremans, G.Goldring, H.Goutte, P.Himpe, M.Lewitowicz, S.Lukyanov, V.Meot, F.de Oliveira Santos, Yu.E.Penionzhkevich, O.Roig, M.Sawicka
Magnetic moment of the fragmentation-aligned ^{61}Fe ($9/2^+$) isomer
Phys. Rev. Lett. **93**, 142503 (2004)

8. D.Tonev, G. de Angelis, P.Petkov, A.Dewald, S.Brant, S.Frauentorf, D.L.Balabanski, P.Pejovic, D.Bazzacco, P.Bednarczyk, F.Camera, A.Fitzler, A.Gadea, S.Lenzi, S.Lunardi, N.Marginean, O.Moller, D.R.Napoli, A.Paleni, C.M.Petrache, G.Prete, K.O.Zell, Y.H.Zhang, Jing-ye Zhang, Q.Zhong, D.Curien
Transition Probabilities in ^{134}Pr : A Test for Chirality in Nuclear Systems
Phys. Rev. Lett. **96**, 052501 (2006)
9. I.Stefanescu, G.Georgiev, F.Ames, J.Aysto, D.L.Balabanski, G.Bollen, P.A.Butler, J.Cederkall, N.Champault, T.Davinson, A.De Maesschalck, P.Delahaye, J.Eberth, D.Fedorov, V.N.Fedosseev, L.M.Fraile, S.Franchoo, K.Gladnishki, D.Habs, K.Heyde, M.Huyse, O.Ivanov, J.Iwanicki, J.Jolie, B.Jonson, Th.Kroll, R.Krucken, O.Kester, U.Koster, A.Lagoyannis, L.Liljeby, G.Lo Bianco, B.A.Marsh, O.Niedermaier, M.Oinonen, G.Pascovici, P.Reiter, A.Saltarelli, H.Scheit, D.Schwalm, T.Sieber, N.Smirnova, J.Van De Walle, P.Van Duppen, S.Zemlyanoy, N.Warr, D.Weisshaar, F.Wenander
Coulomb excitation of the odd-odd nuclei $^{68,70}\text{Cu}$; First use of post-accelerated isomeric beams
Phys. Rev. Lett. **98**, 122701 (2007)
10. I.Stefanescu, G.Georgiev, D.L.Balabanski, N.Blasi, A.Blazhev, N.Bree, J.Cederkall, T.E.Cocolios, T.Davinson, J.Eberth, A.Ekstrom, V.N.Fedosseev, L.M.Fraile, S.Franchoo, K.Gladnishki, M.Huyse, O.Ivanov, J.Iwanicki, J.Jolie, T.Konstantinopoulos, Th.Kroll, R.Krucken, U.Koster, A.Lagoyannis, G.Lo Bianco, P.Maierbeck, B.A.Marsh, P.Napiorkowski, N.Patronis, D.Pauwels, G.Rainovski, P.Reiter, J.Van De Walle, P.Van Duppen, D.Voulot, N.Warr, D.Weisshaar, F.Wenander, K.Wrzosek
Interplay between single-particle and collective effects in the odd-A Cu isotopes beyond $N = 40$
Phys. Rev. Lett. **100**, 112502 (2008)
11. R.Neugart, D.L.Balabanski, K.Blaum, D.Borremans, P.Himpe, M.Kowalska, P.Lieven, S.Mallion, G.Neyens, N.Vermuelen, D.T.Yordanov
Precision measurement of ^{11}Li moments: influence of halo neutrons on the ^9Li core
Phys. Rev. Lett. **101**, 132502 (2008)
12. L.Gaudefroy, J.M.Daugas, M.Hass, S.Grevy, Ch.Stodel, J.C.Thomas, L.Perrot, M.Girod, B.Rosse, J.C.Angelique, D.L.Balabanski, E.Fiori, C.Force, G.Georgiev, D.Kameda, V.Kumar, R.Lozeva, I.Matea, V.Meot, P.Morel, B.S.Nara Singh, G.Simpson
Shape coexistence and shell quenching in $^{43}_{16}\text{S}_{27}$
Phys. Rev. Lett. (accepted)
13. O.Wieland, A.Bracco, F.Camera, G.Benzoni, N.Blasi, S.Brambilla, F.C.L.Crespi, S.Leoni, B.Million, R.Nicolini, A.Maj, P.Bednarczyk, J.Grebosz, M.Kmiecik, W.Meczynski, J.Styczen, T.Aumann, A.Banu, T.Beck, F. Becker, L.Caceres, P.Doornenbal, H.Emling, J.Gerl, H. Geissel, M.Gorska, O.Kavatsyuk, M.Kavatsyuk, I.Kojouharov, N.Kurz, R.Lozeva, N.Saito, T.Saito, H.Schaffner, H.-J.Wollersheim, J.Jolie, P.Reiter, N.Warr G.de Angelis, A.Gadea, D.Napoli, S.Lenzi, S.Lunardi, D.Balabanski, G.Lo Bianco, C.Petrache, A.Saltarelli, M.Castoldi, A.Zucchiatti, J.Walker, A.Burger
Search for PYGMY Dipole Resonance in ^{68}Ni at 600 MeV/u
Phys. Rev. Lett. (submitted)
14. G.Ilie, G.Neyens, G.S.Simpson, J.Jolie, A.Blazhev, H.Grawe, R.L.Lozeva, N.Vermeulen, L.Atanasova, D.L.Balabanski, F.Becker, P.Bednarczyk, C.Brandau, L.Caceres, S.K.Chamoli, J.M.Daugas, P.Doornenbal, J.Gerl, M.Gorska, J.Grebosz, M.Hass, M.Kmiecik, I.Kojouharov, N.Kurz, M.Ionescu-Bujor, A.Jungclaus, A.Maj, S.Mallion, O.Perru, M.Pfutzner, Zs.Podolyak, W.Prokopowicz, M.De Rydt, T.R.Saito, H.Schaffner, K.Turzo, J.Walker, E.Werner-Malento, H.-J. Wollersheim

g factor measurement of the 7^- isomer in ^{126}Sn and first observation of spin-alignment in relativistic fission
Phys. Rev. Lett. (submitted)

Physics Letters B, ISSN: 0370-2693, Elsevier, Netherlands

15. G.Hebbinghaus, K.Strahle, T.Rzaca-Urban, D.Balabanski, W.Gast, R.M.Lieder, H.Schnare, W.Urban, H.Wolters, E.Ott, J.Theuerkauf, K.O.Zell, J.Eberth, P.von Brentano, D.Alber, K.H.Maier, W.Schmitz, E.M.Beck, H.Hubel, T.Bengtsson, I.Ragnarsson, S.Aberg
Superdeformed band in ^{146}Gd . First observation of band crossing
Phys. Lett. **240B**, 311-316 (1990)
16. W.Urban, R.M.Lieder, J.C.Bacelar, P.P.Singh, D.Alber, D.Balabanski, W.Gast, H.Grawe, G.Hebbinghaus, J.R.Jongman, T.Morek, R.F.Noorman, T.Rzaca-Urban, H.Schnare, M.Thoms, O.Zell, W.Nazarewicz
High-spin octupole correlations in the $N = 86$, ^{146}Nd and ^{148}Sm nuclei
Phys. Lett. **258B**, 293-298 (1991)
17. G.Neyens, N.Coulier, S.Ternier, K.Vyvey, S.Michiels, R.Coussement, D.L.Balabanski, J.M.Casandjian, M.Chartier, M.D.Cortina-Gil, M.Lewitowicz, W.Mittig, A.N.Ostrowski, P.Roussel-Chomaz, N.Alamanos, A.Lepine-Szily
Nuclear spin alignment and static moments of light projectile fragments measured with the Level Mixing Resonance (LMR) method
Phys. Lett. **393B**, 36-41 (1997)
18. D.Borremans, S.Teughels, N.A.Smirnova, D.L.Balabanski, N.Coulier, J.-M.Daugas, F.de Oliveira Santos, G.Georgiev, M.Lewitowicz, I.Matea, Yu.E.Penionzhkevich, W.-D.Schmidt-Ott, Yu.Sobolev, M.Stanoi, K.Vyvey, G.Neyens
Spin and magnetic moment of ^{31}Al ground state
Phys. Lett. **537B**, 45-50 (2002)
19. K.Vyvey, A.M.Oros-Peusquens, G.Neyens, D.L.Balabanski, D.Borremans, S.Chmel, N.Coulier, R.Coussement, G.Georgiev, H.Hubel, N.Nenoff, D.Rosbach, S.Teughels, K.Heyde
Quadrupole moments of the 11^- intruder isomers in $^{194, 196}\text{Pb}$ in the particle-core coupling model
Phys. Lett. **538B**, 33-38 (2002)
20. M.K.Djongolov, D.J.Hartley, L.L.Riedinger, F.G.Kondev, R.V.F.Janssens, K.Abu Saleem, I.Ahmad, D.L.Balabanski, M.P.Carpenter, P.Chowdhury, D.M.Cullen, M.Danchev, G.D.Dracoulis, H.El-Masri, J.Goon, A.Heinz, R.A.Kaye, T.L.Khoo, T.Lauritsen, C.J.Lister, E.F.Moore, M.A.Riley, D.Seweryniak, I.Shestakova, G.Sletten, P.M.Walker, C.Wheldon, I.Wiedenhover, O.Zeidan, J.-Y.Zhang
Extending the region of triaxial superdeformation: candidate TSD bands in ^{174}Hf
Phys. Lett. **560B**, 24-30 (2003)
21. M.Ionescu-Bujor, A.Iordachescu, N.Marginean, C.A.Ur, D.Bucurescu, G.Suliman, D.L.Balabanski, F.Brandolini, S.Chmel, P.Detistov, K.Gladnishki, H.Hubel, S.Mallion, R.Marginean, N.H.Medina, D.R.Napoli, G.Neyens, P.Pavan, R.V.Ribas, C.Rusu, K.Turzo, N.Vermuelen
Shape coexistence in neutron-deficient Pb nuclei probed by quadrupole moment measurements
Phys. Lett. **650B**, 141-147 (2007)
22. P.Himpe, G.Neyens, D.L.Balabanski, G.Belier, D.Borremans, J.M.Daugas, M.De Rydt, G.Georgiev, K.Flanagan, M.Kowalska, S.Mallion, I.Matea, P.Morel, F.de Oliveira Santos,

- L.Perrot, N.A.Smirnova, Yu.E.Penionzhkevich, C.Stodel, J.C.Thomas, K.Turzo, N.Vermeulen, D.Yordanov
g Factors of $^{31,32,33}\text{Al}$: Indication for intruder configuration in the ^{33}Al ground state
 Phys. Lett. **643B**, 257-262 (2006)
23. P.Himpe, G.Neyens, D.L.Balabanski, G.Belier, J.M.Daugas, F.de Oliveira Santos, M.De Rydt, K.Flanagan, I.Matea, P.Morel, Y.E.Penionzhkevich, L.Perrot, N.A.Smirnova, C.Stodel, J.C.Thomas, N.Vermeulen, D.T.Yordanov, Y.Utsuno, T. Otsuka
First g factor measurement on an exotic $N=21$ isotope: Extending the island of inversion to ^{34}Al
 Phys. Lett. **658B**, 203-208 (2008)
24. T.Saito, N.Saito, K.Starosta, J.Beller, N.Pietralla, H.-J.Wollersheim, D.L.Balabanski, A.Banu, R.Bark, T.Beck, F.Becker, P.Bednarczyk, K-H.Behr, G.Benzoni, P.G.Bizzeti, C.Boiano, A.Bracco, S.Brambilla, A.Brunle, A.Burger, L.Caceres, F.Camera, F.C.L.Crespi, P.Doornenbal, A.B.Garnsworthy, H.Geissel, J.Gerl, M.Gorska, J.Grebosz, G.Hagemann, J.Jolie, M.Kavatsyuk, O.Kavatsyuk, T.Koiike, I.Kojouharov, N.Kurz, J.Leske, G.Lo Bianco, A.Maj, S.Mallion, S.Mandal, M.Meliage, T.Otsuka, C.M.Petrache, Zs.Podolyak, W.Prokopowicz, G.Rainovski, P.Reiter, A.Richard, H.Schaffner, S.Schielke, G.Sletten, N.J.Thompson, D.Tonev, J.Walker, N.Warr, O.Wieland, Q.Zhong
Yrast and non-yrast 2^+ states of ^{134}Ce and ^{136}Nd populated in relativistic Coulomb excitation
 Phys. Lett. **669B**, 19-23 (2008)
25. M.De Rydt, K.Asahi, D.L.Balabanski, J.M.Daugas, M. Depuydt, L.Gaudefroy, S.Grevy, Y.Hasama, P.Morel, T.Nagamoto, G.Neyens, T.Otsuka, L.Perrot, K.Shimada, Ch.Stodel, J.C.Thomas, H.Ueno, Y.Utsuno, W.Vanderheijden, N.Vermeulen, P.Vingerhoets, A.Yoshimi
Precision measurement of the electric quadrupole moment of ^{31}Al
 Phys. Lett. (submitted)

Physical Review C: Nuclear Physics, ISSN: 0556-2813, American Institute of Physics

Бързи съобщения (Rapid Communications)

26. A.A.Hecht, C.W.Beausang, K.E.Zyromski, D.L.Balabanski, C.J.Barton, M.A.Caprio, R.F.Casten, J.R.Cooper, D.J.Hartley, R.Krucken, D.Meyer, H.Newman, J.R.Novak, E.S.Paul, N.Pietralla, A.Wolf, N.V.Zamfir, J.-Y.Zhang, F.Donau
Evidence for chiral symmetry breaking in ^{136}Pm and ^{138}Eu
 Phys. Rev. C **63**, 051302(R) (2001)
27. D.J.Hartley, L.L.Riedinger, M.A.Riley, D.L.Balabanski, F.G.Kondev, R.W.Laird, J.Pfohl, D.E.Archer, T.B.Brown, R.M.Clark, M.Devlin, P.Fallon, I.M.Hibbert, D.T.Joss, D.R.LaFosse, P.J.Nolan, N.J.O'Brien, E.S.Paul, D.G.Sarantites, R.K.Sheline, S.L.Shepherd, J.Simpson, R.Wadsworth, J.-Y.Zhang, P.B.Semmes, F.Donau
Detailed spectroscopy of the chiral-twin candidate bands in ^{136}Pm
 Phys. Rev. C **64**, 031304(R) (2001)
28. N.Vermeulen, S.K.Chamoli, J.M.Daugas, M.Hass, D.L.Balabanski, J.P.Delaroche, F.de Oliveira-Santos, G.Georgiev, M.Girod, G.Goldring, H.Goutte, S.Grevy, I.Matea, P.Morel, B.S.Nara Singh, Yu.-E.Penionzhkevich, L.Perrot, O.Perru, S.Peru, O.Roig, F.Sarazin, G.S.Simpson, Yu.Sobolev, I.Stefan, C. Stodel, D.T.Yordanov, G.Neyens
First isomeric quadrupole moment measured in fragmentation reactions: The case of ^{61}Fe ($9/2^+$)
 Phys. Rev. C **75**, 051302(R) (2007)

29. D.Rudolph, R.Hoischen, M.Hellstrom, S.Pietri, Zs.Podolyak, P.H.Regan, A.B.Garnsworthy, S.J.Steer, F.Becker, P.Bednarczyk, L.Caceres, P.Doornenbal, J.Gerl, M.Gorska, J.Grebosz, I.Kojouharov, N.Kurz, W.Prokopowicz, H.Schaffner, H.J.Wollersheim, L.-L. Anderson, L. Atanasova, D.L.Balabanski, M.Bentley, A.Blazhev, C.Brandau, J.Brown, C.Fahlander, E.K.Johanson, A.Jungclaus, S.M.Lenzi
Isospin symmetry and proton decays: Identification of the 10^+ isomer in ^{54}Ni
Phys. Rev. C **78**, 021301(R) (2008)
30. S.J.Steer, Zs.Podolyak, S.Pietri, M.Gorska, P.H.Regan, D.Rudolph, E.Werner-Malento, A.B.Garnsworthy, R.Hoischen, J.Gerl, H.J.Wollersheim, K.H.Maier, F.Becker, P.Bednarczyk, L.Caceres, P.Doornenbal, H.Geissel, H.Grawe, J.Grebosz, A.Kelic, I.Kojouharov, N.Kurz, F.Montes, W.Prokopowicz, T.Saito, H.Schaffner, S.Tachenov, A.Heinz, M.Pfutzner, T.Kurtukian-Nieto, G.Benzoni, A.Jungclaus, D.L.Balabanski, C.Brandau, J.Brown, A.M.Bruce, W.N.Catford, I.J.Cullen, Zs.Dombradi, E.Estevez, W.Gelletly, G.Ilie, J.Jolie, G.A.Jones, M.Kmiecik, F.G.Kondev, S.Lalkovski, Z.Liu, A.Maj, S.Myalski, S. Schwertel, T.Shizuma, P.M.Walker, O. Wieland
Single particle behaviour at $N = 126$: Isomeric decays in neutron-rich ^{204}Pt
Phys. Rev. C (accepted)

Cmamuu

31. D.L.Balabanski, R.M.Lieder
Experimental evidence for axial asymmetry and hexadecapole deformation in ^{179}Os
Phys. Rev. C **49**, 2843 (1994)
32. D.L.Balabanski, G.Rainovski, N.Blasi, G.Falconi, G.Lo Bianco, S.Signorelli, D.Bazzacco, G.de Angelis, D.R.Napoli, M.A.Cardona, A.J.Kreiner, H.Somacal
Band termination in ^{123}I
Phys. Rev. C **56**, 1629 (1997)
33. N.Coulier, G.Neyens, S.Teughels, D.L.Balabanski, R.Coussement, G.Georgiev, S.Ternier, K.Vyvey, W.F.Rogers
New β Level Mixing and Nuclear Magnetic Resonance Method for Measuring Magnetic dipole and electric quadrupole moments of short-lived nuclei
Phys. Rev. C **59**, 1935 (1999)
34. D.J.Hartley, W.Reviol, L.L.Riedinger, D.L.Balabanski, H.Q.Jin, B.H.Smith, O.Zeidan, J.-Y.Zhang, A.Galindo-Uribarri, D.G.Sarantites, D.R.LaFosse, J.N.Wilson, S.M.Mullins
Multiple band interactions in ^{131}Nd
Phys. Rev. C **61**, 044328 (2000)
35. K.Vyvey, G.Neyens, N.Coulier, R.Coussement, G.Georgiev, S.Ternier, S.Teughels, A.Lepine-Szily, D.L.Balabanski
Preservation of orientation of fusion-evaporation reaction residues recoiling into vacuum in a level mixing spectroscopy experiment
Phys. Rev. C **62**, 034317 (2000)
36. N.Coulier, G.Neyens, D.L.Balabanski, D.Borremans, R.Coussement, J.M.Daugas, G.Georgiev, S.Teughels, K.Vyvey
 β -Level Mixing Resonance: A method to study the spin alignment and spin polarization of projectile fragments
Phys. Rev. C **63**, 054605 (2001)
37. K.Vyvey, D.Borremans, N.Coulier, R.Coussement, G.Georgiev, S.Teughels, G.Neyens, H.Hubel, D.L.Balabanski

- Determination of the quadrupole moment of the 11^- isomer in ^{194}Pb via a double perturbation analysis of a level mixing spectroscopy measurement*
 Phys. Rev. C **65**, 024320 (2002)
38. E.A.Stefanova, M.Danchev, R.Schwengner, D.L.Balabanski, M.P.Carpenter, M.Djongolov, S.M.Fischer, D.J.Hartley, R.V.F.Janssens, W.F.Mueller, D.Nisius, W.Reviol, L.L.Riedinger, O.Zeidan
Structure of high-spin states in ^{91}Sr and ^{92}Sr
 Phys. Rev. C **65**, 034323 (2002)
39. G.Rainovski, D.L.Balabanski, G.Roussev, G.Lo Bianco, G.Falconi, N.Biasi, D.Bazzacco, G.de Angelis, D.R.Napoli, F.Donau, V.I.Dimitrov
Tilted dipole bands in $^{123, 124}\text{Xe}$
 Phys. Rev. C **66**, 014308 (2002)
40. D.Borremans, J.M.Daugas, S.Teughels, D.L.Balabanski, N.Coulier, F.de Oliveira Santos, G.Georgiev, M.Hass, M.Lewitowicz, I.Matea, Yu.E.Penionzhkevich, W.-D.Schmidt-Ott, Yu.E.Sobolev, M.Stanoiu, K.Vyvey, G.Neyens
Spin polarization of ^{27}Na and ^{31}Al in intermediate energy projectile fragmentation of ^{36}S
 Phys. Rev. C **66**, 054601 (2002)
41. M.Danchev, D.J.Hartley, F.G.Kondev, M.P.Carpenter, R.V.F.Janssens, L.L.Riedinger, K.H.Abu Saleem, I.Ahmad, H.Amro, D.L.Balabanski, J.A.Cizewski, C.N.Davids, A.Heinz, T.L.Khoo, T.Lauritsen, C.J.Lister, W.C.Ma, G.L.Poli, J.Ressler, W.Reviol, M.B.Smith, D.Seweryniak, I.Wiedenhover
In-beam γ -ray spectroscopy of ^{172}Pt
 Phys. Rev. C **67**, 014312 (2003)
42. M.Sawicka, R.Grzywacz, I.Matea, H.Grawe, M.Pfutzner, J.M.Daugas, M.Lewitowicz, D.L.Balabanski, F.Becker, G.Belier, C.Bingham, C.Borcea, E.Bouchez, A.Buta, M.La Commara, E.Dragulescu, G.de France, G.Georgiev, J.Giovinazzo, M.Gorska, F.Hammache, M.Hass, M.Hellstrom, F.Ibrahim, Z.Janas, H.Mach, P.Mayet, V.Meot, F.Negoita, G.Neyens, F.de Oliveira Santos, R.D.Page, O.Perru, Zs.Podolyak, O.Roig, K.P.Rykaczewski, M.G.Saint-Laurent, J.E.Sauvestre, O.Sorlin, M.Stanoiu, I.Stefan, C.Stodel, Ch.Theisen, D.Verney, J.Zylicz
Low energy levels in ^{72}Ni
 Phys. Rev. C **68**, 044304 (2003)
43. M.Danchev, D.L.Balabanski, I.Yigitoglu, B.Akkus, C.W.Beausang, M.Bostan, R.F.Casten, M.K.Djongolov, M.N.Erduran, S.Erturk, K.A.Gladnishki, G.Gurdal, J.TM.Goon, D.J.Hartley, A.A.Hecht, R.Krucken, J.R.Novak, Y.Oktem, G.Rainovski, L.L.Riedinger, N.V.Zamfir, O.Zeidan
Delayed backbending in the $\pi h_{9/2}$ band of ^{187}Ir
 Phys. Rev. C **68**, 054307 (2003)
44. A.Blazhev, M.Gorska, H.Grawe, J.Nyberg, M.Palacz, E.Caurier, O.Dorvaux, A.Gadea, F.Nowacki, C.Andreoiu, G.de Angelis, D.Balabanski, Ch.Beck, B.Cederwall, D.Curien, J.Doring, J.Ekman, C.Fahlander, K.Lagergren, J.Ljungvall, M.Moszynski, L.-O.Norlin, C.Plettner, D.Rudolph, D.Sohler, K.M.Spohr, O.Thelen, M.Weiszflog, M.Wisell, M.Wolinska, W.Wolski
Observation of a core-excited $E4$ isomer in ^{98}Cd
 Phys. Rev. C **69**, 064304 (2004)
45. M.Ionescu-Bujor, A.Iordachescu, D.L.Balabanski, S.Chmel, G.Neyens, G.Baldsiefen, D.Bazzacco, F.Brandolini, D.Bucurescu, M.Danchev, M.De Poli, G.Georgiev, A.Gorgen, H.Haas, H.Hubel, G.Ilie, N.Marginean, R.Menegazzo, P.Pavan, G.Rainovski, R.V.Ribas, C.Rossi Alvarez, C.A.Ur, K.Vyvey, S.Frauentorf

- Quadrupole moments and g factors for high-spin neutron isomers in ^{193}Pb*
 Phys. Rev. C **70**, 034305 (2004)
46. D.L.Balabanski, M.Danchev, D.J.Hartley, L.L.Riedinger, O.Zeidan, J.Zhang, C.J.Barton, C.W.Beausang, M.A.Caprio, R.F.Casten, J.R.Cooper, A.A.Hecht, R.Krucken, J.R.Novak, N.V.Zamfir, K.E.Zyromski
Possible assignment of chiral twin bands in ^{188}Ir
 Phys. Rev. C **70**, 044305 (2004)
47. D.T.Scholes, D.M.Cullen, F.G.Kondev, R.V.F.Janssens, M.P.Carpenter, D.J.Hartley, M.K.Djongolov, G.Sletten, G.Hagemann, C.Wheldon, P.M.Walker, K.Abu Saleem, I.Ahmad, D.L.Balabanski, P.Chowdhury, M.Danchev, G.D.Dracoulis, H.M.El-Masri, J.Goon, A.Heinz, R.A.Kaye, T.L.Khoo, T.Lauritsen, C.J.Lister, E.F.Moore, L.L.Riedinger, M.A.Riley, D.Seweryniak, I.Shestakova, I.Wiedenhover, O.Zeidan, J.-ye.Zhang
Highly deformed bands in ^{175}Hf
 Phys. Rev. C **70**, 054314 (2004)
48. G.Rainovski, D.L.Balabanski, V.I.Dimitrov
Comment on "Probing nuclear structure of ^{124}Xe "
 Phys. Rev. C **72**, 029801 (2005)
49. D.Borremans, D.L.Balabanski, K.Blaum, W.Geithner, S.Gheysen, P.Himpe, M.Kowalska, J.Lassen, P.Lieven, S.Mallion, R.Neugart, G.Neyens, N.Vermeulen, D.Yordanov
New measurement and reevaluation of the nuclear magnetic and quadrupole moments of ^8Li and ^9Li
 Phys. Rev. C **72**, 044309 (2005); Erratum Phys. Rev. C **72**, 059902 (2005)
50. F.Marechal, D.L.Balabanski, D.Borremans, J.-M.Daugas, F.de Oliveira Santos, P.Dessagne, G.Georgiev, J.Giovinazzo, S.Grevy, P.Himpe, C.Jollet, I.Matea, G.Neyens, F.Perrot, E.Poirier, O.Roig, M.Stanoi, C.Stodel, J.-C.Thomas, K.Turzo, D.Yordanov, E.Caurier, F.Nowacki, A.Poves
 β decay of ^{31}Mg : Extending the "island of inversion"
 Phys. Rev. C **72**, 044314 (2005); Erratum Phys. Rev. C **76**, 055902 (2007)
51. K.Turzo, P.Himpe, D.L.Balabanski, G.Belier, D.Borremans, J.M.Daugas, G.Georgiev, F.de Oliveira Santos, S.Mallion, I.Matea, G.Neyens, Yu.E.Penionzhkevich, Ch.Stodel, N.Vermeulen, D.Yordanov
Spin polarization of ^{34}Al fragments produced by nucleon pickup at intermediate energies
 Phys. Rev. C **73**, 044313 (2006)
52. 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, K.Vyvey
Quadrupole moment of the 8^+ yrast state in ^{84}Kr
 Phys. Rev. C **74**, 034309 (2006)
53. G.S.Simpson, J.A.Pinston, D.Balabanski, J.Genevey, G.Georgiev, J.Jolie, D.S.Judson, R.Orlandi, A.Scherillo, I.Tsekhanovich, W.Urban, N.Warr
High-spin μs isomer in ^{98}Zr
 Phys. Rev. C **74**, 064308 (2006)
54. Y.Oktem, D.L.Balabanski, B.Akkus, C.W.Beausang, M.Bostan, R.F.Casten, M.Danchev, M.Djongolov, M.N.Erduran, S.Erturk, K.A.Gladniski, G.Gurdal, J.Tm.Goon, D.J.Hartley, A.A.Hecht, R.Krucken, N.I.Nikolov, J.R.Novak, G.Rainovski, L.L.Riedinger, I.Yigitoglu, N.V.Zamfir, O.Zeidan
High-spin states in $^{191,193}\text{Au}$ and ^{192}Pt : Evidence for oblate deformation and triaxial shapes
 Phys. Rev. C **76**, 044315 (2007) ; Erratum (accepted)
55. D.Tonev, G. de Angelis, P.Petkov, A.Dewald, S.Brant, S.Frauentorf, D.L.Balabanski, P.Pejovic, D.Bazzacco, P.Bednarczyk, F.Camera, D.Curien, F. Della Vedova, A.Fitzler,

A.Gadea, G. Lo Bianco, S.Lenzi, S.Lunardi, N.Marginean, O.Moller, D.R.Napoli, R. Orlandi, E. Sahin, A. Saltarelli, J. Valiente Dobon, K.O.Zell, Jing-ye Zhang, Y.H.Zhang
Question of dynamic chirality in nuclei: The case of ^{134}Pr
Phys. Rev. C **76**, 044313 (2007)

56. R.L.Lozeva, G.S.Simpson, H.Grawe, G.Neyens, L.A.Atanasova, D.L.Balabanski, D.Bazzacco, F.Becker, P.Bednarczyk, G.Benzoni, N.Blasi, A.Blazhev, A.Bracco, C.Brandau, L.Caceres, F.Camera, S.K.Chamoli, F.C.L.Crespi, J.-M.Daugas, P.Detistov, M.De Rydt, P.Doornenbal, C.Fahlander, E.Farnea, G.Georgiev, J.Gerl, K.A.Gladnishki, M. Gorska, J.Grebosz, M.Hass, R.Hoischen, G.Ilie, M.Ionescu-Bujor, A.Iordachescu, J.Jolie, A.Jungclaus, M.Kmiecik, I.Kojouharov, N.Kurz, S.P.Lakshmi, G.Lo Bianco, S.Mallion, A.Maj, D.Montanari, O.Perru, M.Pfutzner, S.Pietri, J.A.Pinston, Zs.Podolyak, W.Prokopowicz, D.Rudolph, G.Rusev, T.R.Saitoh, A.Saltarelli, H.Schaffner, R.Schwengner, S.Tashenov, K.Turzo, J.J.Valiente-Dobon, N.Vermeulen, J.Walker, E.Werner-Malento, O.Wieland, H.-J. Wollersheim
New sub- μs isomers in $^{125,127,129}\text{Sn}$ and isomer systematics of $^{124-130}\text{Sn}$
Phys. Rev. C **77**, 064313 (2008)

Nuclear Physics A, ISSN: 0375-9474, Elsevier, Netherlands

57. D.L.Balabanski, R.M.Lieder, T.Kutsarova, W.Gast, G.Hebbinghaus, A.Kramer-Flecken, T.Rzaca-Urban, H.Schnare, W.Urban, G.Sletten, K.H.Maier, K.O.Zell
Study of band structures and crossings in ^{179}Os
Nucl. Phys. A **563**, 129-161 (1993)
58. T.Kutsarova, R.M.Lieder, H.Schnare, G.Hebbinghaus, D.Balabanski, W.Gast, A.Kramer-Flecken, M.A.Bentley, P.Fallon, D.Howe, A.R.Mokhtar, J.F.Sharpey-Schafer, P.Walker, P.Chowdhury, B.Fabricsius, G.Sletten, S.Frauendorf
Study of high-spin states in $^{181,182}\text{Os}$
Nucl. Phys. A **587**, 111-149 (1995)
59. G.Neyens, S.Ternier, N.Coulier, K.Vyvey, R.Coussement, D.L.Balabanski
Influence of particle-core coupling on the quadrupole moment of 8^+ isomers in even-even Po isotopes
Nucl. Phys. A **625**, 668-674 (1997)
60. D.M.Cullen, L.K.Pattison, J.F.Smith, A.M.Fletcher, P.M.Walker, H.M.El-Masri, Zs.Podolyak, R.J.Wood, C.Scholey, C.Wheldon, G.Mukherjee, D.Balabanski, M.Djongolov, Th.Dalsgaard, H.Thisgaard, G.Sletten, F.Kondev, D.Jenkins, G.D.Dracoulis, G.L.Lane, I.-Y.Lee, A.O.Macchiavelli, F.Xu
High-spin states, lifetime measurements and isomers in ^{181}Os
Nucl. Phys. A **728**, 287-338 (2003)

Conference papers

61. G.Neyens, D.L.Balabanski, D.Borremans, R.Coussement, N.Coulier, J.M.Daugas, F.de Oliveira Santos, G.Georgiev, M.Lewitowicz, N.A.Smirnova, S.Teughels, K.Vyvey, and the GANIL E255/E322/E314a/E348 Collaborations
Recent results on nuclear moments of neutron-rich ground states and isomers from projectile fragmentation
Nucl. Phys. A **682**, 214c-222c (2001)

62. C.W.Beausang, A.A.Hecht, K.E.Zyromski, D.Balabanski, C.J.Barton, M.A.Caprio, R.F.Casten, J.R.Cooper, D.Hartley, R.Krucken, J.R.Novak, N.V.Zamfir, J.-Y.Zhang, F.Donau
Evidence for chiral symmetry in the mass $A \approx 130$ region
Nucl. Phys. A **682**, 394c-398c (2001)
63. J.L.Sida, N.Alamanos, C.Daniel, V.Lapoux, M.Trotta, A.Andreyev, F.Auger, D.L.Balabanski, C.Borcea, N.Coulier, A.Drouart, D.J.C.Durand, G.Georgiev, A.Gillibert, J.D.Hinnefeld, M.Huyse, C.Jouanne, A.Lepine, A.Lumbroso, F.Marie, A.Musumarra, G.Neyens, S.Ottini, R.Raabe, S.Ternier, P.Van Duppen, K.Vyvey, C.Volant, R.Wolski
Sub-barrier fusion with the ${}^6\text{He}$ halo nucleus
Nucl. Phys. A **685**, 51c-59c (2001)
64. G.Neyens, G.Georgiev, R.Grzywacz, M.Hass, F.de Oliveira Santos, M.Lewitowicz, D.L.Balabanski, C.Bingham, C.Borcea, N.Coulier, R.Coussement, J.M.Daugas, G.De France, G.Goldring, M.Gorska, H.Grawe, C.O'Leary, I.Macovei, H.Mach, R.Page, M.Pfutzner, Yu.-E.Penionzhkevich, Z.Podolyak, P.H.Regan, K.Rykaczewski, M.Sawicka, N.A.Smirnova, Yu.Sobolev, S.Teughels, K.Vyvey
g-factors of isomers around $N \approx 40$, $Z \approx 28$ from time-dependent Larmor precession on spin-aligned projectile-like fragments
Nucl. Phys. A **701**, 403c-409c (2002)
65. P.H.Regan, A.B.Garnsworthy, S.Pietri, L.Caceres, M.Gorska, D.Rudolph, Zs.Podolyak, S.J.Steer, R.Hoischen, J.Gerl, H.J.Wollersheim, J.Grebosz, H.Schaffner, W.Prokopwicz, I.Kojouharov, F.Becker, P.Bednarczyk, P.Doornenball, H.Geissel, H.Grawe, A.Kelic, N.Kurz, F.Montes, T.Saito, S.Tashenov, E.Werner-Malento, A.Heinz, L.Atanasova, D.Balabanski, B.Blank, A.Blazhev, C.Brandau, A.M.Bruce, W.N.Catford, F.Camera, I.J.Cullen, M.E.Estevez, C.Fahlander, W.Gelletly, G.Ilie, A.Jungclaus, J.Jolie, T.Kurtukian-Nieto, Z.Liu, M.Kmiecik, A.Maj, S.Myalski, S.Schwertel, T.Shizuma, A.J.Simons, P.M.Walker, O.Wieland
Isomer spectroscopy using relativistic projectile fragmentation at the $N=Z$ line for $A \sim 80 - 90$
Nucl. Phys. A **787**, 491c-498c (2007)

European Physical Journal A: Hadrons and Nuclei

ISSN: 1434-6001, Springer-Verlag, Germany

66. M.Sawicka, J.M.Daugas, H.Grawe, S.Cwiok, D.L.Balabanski, R.Beraud, C.Bingham, C.Borcea, M.La Commara, G.de France, G.Georgiev, M.Gorska, R.Grzywacz, M.Hass, M.Hellstrom, Z.Janas, M.Lewitowicz, H.Mach, I.Matea, G.Neyens, C.O'Leary, F.de Oliveira Santos, R.D.Page, M.Pfutzner, Zs.Podolyak, K.Rykaczewski, M.Stanoiu, J.Zylicz
Isomeric decay of ${}^{67}\text{Fe}$ - Evidence for deformation
Eur. Phys. J. A **16**, 51 (2003)
67. K.Vyvey, D.L.Balabanski, G.Neyens
The quadrupole moments of the 11^- isomers in ${}^{194,196}\text{Pb}$ revisited
Eur. Phys. J. A **22**, Supplement 1, 1 (2004)
68. G.Georgiev, I.Matea, D.L.Balabanski, J.M.Daugas, F.de Oliveira Santos, S.Franchoo, F.Ibrahim, F.Le Blanc, M.Lewitowicz, G.Lo Bianco, S.Lukyanov, V.Meot, P.Morel, G.Neyens, Yu.E.Penionzhkevich, A.Saltarelli, O.Sorlin, M.Stanoiu, M.Tarisien, N.Vermeulen, D.Verney, D.Yordanov
g-factor of the $9/2^+$ isomeric state in ${}^{65}\text{Ni}$ from transfer reaction
Eur. Phys. J. A **30**, 351 (2006)

69. D.Rudolph, R.Hoischen, M.Hellstrom, S.Pietri, Zs.Podolyak, P.H.Regan, A.B.Garnsworthy, F.Becker, P.Bednarczyk, L.Caceres, P.Doornenbal, J.Gerl, M.Gorska, J.Grebosz, I.Kojouharov, N.Kurz, W.Prokopowicz, H.Schaffner, H.J.Wollersheim, L.-L. Andersson, L.Atanasova, D.Balabanski, M.A.Bentley, A.Blazhev, C.Brandau, J.Brown, C.Fahlander, E.K.Johansson, A.Jungclaus *Evidence for an isomeric $3/2^-$ state in ^{53}Co*
Eur. Phys. J. A **36**, 131-138 (2008)

Conference papers

70. D.L.Balabanski, M.Ionescu-Bujor, A.Iordachescu, D.Bazzacco, F.Brandolini, D.Bucurescu, S.Chmel, M.Danchev, M.De Poli, G.Georgiev, H.Haas, H.Hubel, N.Marginean, R.Menegazzo, G.Neyens, P.Pavan, G.Rainovski, C.Rossi Alvarez, C.A.Ur, K.Vyvey, S.Frauentorf
Spectroscopic quadrupole moments of high-spin isomers in ^{193}Pb
Eur. Phys. J. A **20**, 191 (2004)
71. G.Georgiev, G.Neyens, M.Hass, D.L.Balabanski, C.Bingham, C.Borcea, N.Coulier, R.Coussement, J.M.Daugas, G.de France, M.Gorska, H.Grawe, R.Grzywacz, M.Lewitowicz, H.Mach, I.Matea, F.de Oliveira Santos, R.D.Page, M.Pfutzner, Yu.E.Penionzhkevich, Z.Podolyak, P.H.Regan, K.Rykaczewski, M.Sawicka, N.A.Smirnova, Yu.Sobolev, M.Stanoi, S.Teughels, K.Vyvey
g-factors of isomeric states in the neutron-rich nuclei
Eur. Phys. J. A **20**, 93 (2004)
72. D.Tonev, G.de Angelis, P.Petkov, A.Dewald, A.Gadea, P.Pejovic, D.L.Balabanski, P.Bednarczyk, F.Camera, A.Fitzler, O.Moller, N.Marginean, A.Paleni, C.Petrache, K.O.Zell, Y.H.Zhang
Check for chirality in real nuclei
Eur. Phys. J. A **25**, Supplement 1, 447 (2005)
73. 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
Study of fission fragments produced by $^{14}\text{N} + ^{235}\text{U}$ reaction
Eur. Phys. J. A **27**, Supplement 1, 201 (2006)
74. G.Neyens, P.Himpe, D.L.Balabanski, P.Morel, L.Perrot, M.De Rydt, I.Stefan, C.Strodel, J.C.Thomas, N.Vermeulen, D.Yordanov
The "island of inversion" from a nuclear moments perspective and the g-factor of ^{35}Si
Eur. Phys. J. Special Topics **150**, 149-153 (2007)
75. D.Rudolph, S.Pietri, Zs.Podolyak, P.H.Regan, A.B.Garnsworthy, R.Hoischen, S.J.Steer, F.Becker, P.Bednarczyk, L.Caceres, P.Doornenbal, H.Geissel, J.Gerl, M.Gorska, J.Grebosz, A.Kelic, I.Kojouharov, N.Kurz, F.Montes, W.Prokopowicz, T.Saito, H.Schaffner, S.Tachenov, E.Werner-Malento, H.J.Wollersheim, L.-L. Andersson, L.Atanasova, D.Balabanski, M.A.Bentley, G.Benzoni, B.Blank, A.Blazhev, C.Brandau, J.Brown, A.M.Bruce, F.Camera, W.N.Catford, I.J.Cullen, Zs.Dombradi, E.Estevez, C.Fahlander, W.Gelletly, A.Heinz, M.Hellstrom, G.Ilie, E.K.Johansson, J.Jolie, G.A.Jones, A.Jungclaus, M.Kmiecik, F.G.Kondev, T.Kurtukian-Nieto, S.Lalkovski, Z.Liu, A.Maj, S.Myalski, M.Pfutzner, T.Shizuma, A.J.Simons, S.Schwertel, P.M.Walker, O. Wieland
Exciting isomers from the first stopped-beam RISING campaign
Eur. Phys. J. Special Topics **150**, 173-176 (2007)

76. Zs.Podolyak, S.Pietri, S.J.Steer, E.Werner-Malento, P.H.Regan, D.Rudolph, A.B.Garnsworthy, R.Hoischen, M.Gorska, J.Gerl, H.J.Wollersheim, T.Kurtukian-Nieto, G.Benzoni, F.Becker, P.Bednarczyk, L.Caceres, P.Doornenbal, H.Geissel, J.Grebosz, A.Kelic, I.Kojouharov, N.Kurz, F.Montes, W.Prokopowicz, T.Saito, H.Schaffner, S.Tachenov, A.Heinz, M.Pfutzner, L.-L.Andersson, L.Atanasova, D.Balabanski, M.A.Bentley, B.Blank, A.Blazhev, C.Brandau, J.Brown, A.M.Bruce, F.Camera, W.N.Catford, I.J.Cullen, Zs.Dombradi, E.Estevez, C.Fahlander, W.Gelletly, M.Hellstrom, G.Ilie, E.K.Johansson, J.Jolie, G.A.Jones, A.Jungclaus, M.Kmiecik, F.G.Kondev, S.Lalkovski, Z.Liu, A.Maj, S.Myalski, T.Shizuma, A.J.Simons, S.Schwertel, P.M.Walker, O.Wieland, B.A.Brown
Isomeric decay studies around ^{204}Pt and ^{148}Tb
Eur. Phys. J. Special Topics **150**, 165-168 (2007)

Journal of Physics G: Nuclear and Particle Physics, ISSN: 0954-3899,
Institute of Physics, UK

77. G.Georgiev, G.Neyens, M.Hass, D.L.Balabanski, C.Bingham, C.Borcea, N.Coulier, R.Coussement, J.M.Daugas, G.De France, F.de Oliveira Santos, M.Gorska, H.Grawe, R.Grzywacz, M.Lewitowicz, H.Mach, I.Matea, R.D.Page, M.Pfutzner, Yu.E.Penionzhkevich, Z.Podolyak, P.H.Regan, K.Rykaczewski, M.Sawicka, N.A.Smirnova, Y.G.Sobolev, M.Stanoiu, S.Teughels, K.Vyvey
g factor measurements of μs isomeric states in neutron-rich nuclei around ^{68}Ni produced in projectile-fragmentation reactions
J. Phys.(London) G **28**, 2993-3006 (2002)

Conference papers

78. K.Vyvey, G.Neyens, D.L.Balabanski, S.Ternier, N.Coulier, S.Teughels, G.Georgiev, R.Wyckmans, R.Coussement, M.Mineva, P.M.Walker, A.P.Byrne, G.D.Dracoulis, P.Blaha
Study of the static quadrupole moment of the $K = 35/2$ isomer in ^{179}W
J. Phys.(London) G **25**, 767-769 (1999)
79. K.A.Gladnishki, D.L.Balabanski, P.Petkov, A.Dewald, D.Tonev, M.Axiotis, A.Fitzler, M.Danchev, S.Harissopulos, S.Lalkovski, N.Marginean, T.Martinez, O.Moeller, G.Neyens, A.Spyrou, E.A.Stefanova, C.Ur
Lifetime measurements in the yrast magnetic band in ^{193}Pb
J. Phys.(London) G **31**, S1559-S1562 (2005)
80. G.Georgiev, I.Matea, D.L.Balabanski, J.M.Daugas, F.de Oliveira Santos, S.Franchoo, F.Ibrahim, F.Le Blanc, M.Lewitowicz, G.Lo Bianco, S.Lukyanov, V.Meot, P.Morel, G.Neyens, Yu.E.Penionzhkevich, A.Saltarelli, O.Sorlin, M.Stanoiu, M.Tarisien, N.Vermeulen, D.Verney, D.Yordanov
g-factor measurement of the $9/2^+$ isomeric state in ^{65}Ni
J. Phys.(London) G **31**, S1439-S1442 (2005)
81. R.Lozeva, J.Gerl, M.Gorska, S.Mandal, D.Balabanski, I.Kojouharov, F.Becker, J.Grebosz, A.Banu, P.Bednarczyk, P.Doornenbal, H.-J.Wollersheim
Identification of heavy ion reaction channels with a new CALorimeter TElescope within RISING
J. Phys.(London) G **31**, S1917-S1920 (2005)

Nuclear Instruments and Methods in Physics Research

Section A: Accelerators, Spectrometers, Detectors and Associated Equipment;

ISSN: 0168-9002

Section B: Beam Interactions with Materials and Atoms

ISSN: 0168-583X

Elsevier, Netherlands

82. E.I.Vapirev, P.S.Kamenov, V.Dimitrov, D.L.Balabanski
Resonance detectors for time experiments
Nucl. Instrum. Methods Phys. Res. A **219**, 376-383 (1984)
83. D.L.Balabanski, P.S.Kamenov, V.Dimitrov, E.Vapirev
A note on the time-dependence of Moessbauer scattered radiation
Nucl. Instrum. Methods Phys. Res. B **16**, 100-105 (1986)
84. D.L.Balabanski, A.Proykova, P.S.Kamenov
The time-dependence of resonantly filtered recoilless gamma-radiation: An approach to the numerical problem
Nucl. Instrum. Methods Phys. Res. B **16**, 434-438 (1986)
85. S.Ternier, G.Neyens, K.Vyvey, J.Odeurs, N.Coulier, S.Michiels, R.Coussement, D.L.Balabanski, R.Kulkarni
Quadrupole frequency measurements using defect-associated electric field gradients in cubic host materials
Nucl. Instrum. Methods Phys. Res. B **140**, 235-242 (1998)
86. K.Vyvey, G.Neyens, S.Cottenier, D.L.Balabanski, N.Coulier, R.Coussement, G.Georgiev, A.Lepine-Szily, S.Ternier, S.Teughels
Measurement of a strong atomic hyperfine field allowing the determination of nuclear g-factors in (sub)nanosecond states
Nucl. Instrum. Methods Phys. Res. A **462**, 588-595 (2001)
87. R.Lozeva, J.Gerl, M.Gorska, I.Kojouharov, S.Mandal, H.-J.Wollersheim, D.Balabanski, F.Becker, J.Grebosz, A.Banu, P.Bednarczyk, P.Doornenbal, H.Schaffner
A novel calorimeter telescope for identification of relativistic heavy-ion reaction channels
Nucl. Instrum. Meth. Phys. Res. A **562**, 298-305 (2006)
88. M.Ciemala, D.Balabanski, M.Csatlos, J.-M. Daugas, G.Georgiev, J. Gulyas, A. Krasznahorkay, S.Lalkovski, A.Lefebvre-Schuhl, R. Lozeva, A. Maj, A.Vitez
Measurements of high-energy γ -rays with $LaBr_3:Ce$ detectors
Nucl. Instrum. Meth. Phys. Res. A (submitted)

Conference papers

89. R.Lozeva, A.Banu, D.Balabanski, J.Gerl, M.Gorska, I.Kojouharov, Y.Kopatch, S.Mandal, H.Schaffner, H.-J.Wollersheim
Investigation of scintillation detectors for relativistic heavy-ion calorimetry
Nucl. Instrum. Methods Phys. Res. B **204**, 678-681 (2003)
90. S.Pietri, P.H.Regan, Zs.Podolyák, D.Rudolph, S.J.Steer, A.B.Garnsworthy, E.Werner-Malento, R.Hoischen, M.Górska, J.Gerl, H.J.Wollersheim, I.Kojouharov, H.Schaffner, F.Becker, P.Bednarczyk, L.Caceres, P.Doornenbal, H.Geissel, J.Grebosz, A.Kelic, N.Kurz, F.Montes, W.Prokopowicz, T.Saito, S.Tashenov, A.Heinz, M.Pfützner, T.Kurtukian-Nieto, G.Benzoni, M.Hellström, A.Jungclaus, J.Simpson, L.-L.Andersson, L.Atanasova, D.L.Balabanski, M.A.Bentley, B.Blank, A.Blazhev, C.Brandau, J.R.Brown, A.M.Bruce, F.Camera, W.N.Catford, I.J.Cullen, Zs.Dombradi, E.Estevez, C.Fahlander, W.Gelletly,

G.Ilie, E.K.Johansson, J.Jolie, G.A.Jones, M.Kmiecik, F.G.Kondev, S.Lalkovski, Z.Liu, A.Maj, S.Myalski, T.Shizuma, A.J.Simons, S.Schwertel, P.M.Walker, O.Wieland
Recent results in fragmentation isomer spectroscopy with RISING
Nucl. Instrum. Methods Phys. Res. B **261**, 1079-1083 (2007)

Zeitschrift fur Physik A: Hadrons and Nuclei, ISSN: 0939-7922,
Springer-Verlag, Germany

91. D.L.Balabanski, W.Gast, G.Hebbinghaus, A.Kramer-Flecken, R.M.Lieder, T.Morek, T.Rzaca-Urban, H.Schnare, W.Urban
Origin of the backbending in the $\pi h_{9/2}$ band of ^{185}Ir
Z. Phys. A **332**, 111-112 (1989)
92. T.Rzaca-Urban, K.Strahle, G.Hebbinghaus, D.Balabanski, W.Gast, R.M.Lieder, H.Schnare, W.Urban, P.von Brentano, A.Dewald, J.Eberth, E.Ott, J.Theuerkauf, H.Wolters, K.O.Zell, D.Alber, K.H.Maier, E.M.Beck, H.Hubel, W.Schmitz
Excited superdeformed band in ^{146}Gd
Z. Phys. A **339**, 421-422 (1991)
93. D.L.Balabanski, D.Hr.Hristov, R.M.Lieder, T.Rzaca-Urban, W.Gast, G.Hebbinghaus, A.Kramer-Flecken, H.Schnare, W.Urban, R.Wyss
Fragmentation of the yrast band in ^{186}Os at $I^{(\pi)} = 18^+$ and disappearance of the collective minimum
Z. Phys. A **356**, 393-397 (1997)

Conference papers

94. G.Neyens, D.L.Balabanski, K.Vyvey, S.Ternier, N.Coulier, R.Coussement, P.M.Walker, A.P.Byrne, G.D.Dracoulis, P.Blaha
LEMS: Application of the method to study the static quadrupole moment of the $K=(35/2)$ isomer in ^{179}W
Z. Phys. A **358**, 267-268 (1997)

Acta Physica Polonica B, ISSN: 0587-4254,
Institute of Physics, Jagellonian University, Poland

Conference papers

95. N.Coulier, G.Neyens, S.Ternier, K.Vyvey, S.Michiels, R.Coussement, D.L.Balabanski, J.M.Casandjian, M.Chartier, M.D.Cortina-Gil, M.Lewitowicz, W.Mittig, A.N.Ostrowski, P.Roussel-Chomaz, N.Alamanos, A.Lepine-Szily
Direct determination of the alignment of projectile fragments from a β -anisotropy level mixing resonance (LMR) measurement
Acta Phys. Pol. B **28**, 407 (1997)
96. S.Ternier, G.Neyens, K.Vyvey, N.Coulier, S.Michiels, R.Coussement, R.Kulkarni, D.L.Balabanski
Quadrupole frequency measurements in cubic and magnetic host materials
Acta Phys. Pol. B **28**, 325 (1997)
97. K.Vyvey, G.Neyens, S.Ternier, N.Coulier, S.Michiels, R.Coussement, D.L.Balabanski, A.Lepine-Szily
Improvements of the LEMS technique to determine quadrupole moments of high-K isomers

- Acta Phys. Pol. B **28**, 329 (1997)
98. G.Neyens, D.L.Balabanski, D.Borremans, N.Coulier, R.Coussement, W.De Clercq, G.Georgiev, S.Teughels, K.Vyvey
Nuclear magnetic and quadrupole moments of exotic isomeric states
Acta Phys. Pol. B **32**, 1061 (2001)
99. D.L.Balabanski, K.Vyvey, G.Neyens, D.Almehed, P.Blaha, D.Borremans, S.Chmel, N.Coulier, R.Coussement, W.De Clercq, S.Frauentorf, G.Georgiev, H.Hubel, A.Lepine-Szily, M.Mineva, N.Nenoff, S.Pancholi, D.Roszbach, R.Schwengner, S.Teughels, P.M.Walker
Quadrupole moments of high-spin isomers: test of the tilted-axis cranking model
Acta Phys. Pol. B **32**, 2655 (2001)
100. P.Detistov, D.L.Balabanski, Zs.Podolyak
Simulation of the electromagnetic background radiation for the RISING experimental set-up
Acta Phys. Pol. B **38**, 1287-1292 (2007)
101. G.Neyens, L.Atanasova, D.L.Balabanski, F.Becker, P.Bednarczyk, L.Caceres, P.Doornenbal, J.Gerl, M.Gorska, J.Grebosz, M.Hass, G.Ilie, N.Kurz, I.Kojouharov, R.Lozeva, A.Maj, M.Pfutzner, S.Pietri, Zs.Podolyak, W.Prokopowicz, T.R.Saitoh, H.Schaffner, G.Simpson, N.Vermeulen, E.Werner-Malento, J.Walker, H.J.Wollersheim, D.Bazzacco, G.Benzoni, A.Blazhev, N.Biasi, A.Bracco, C.Brandau, F.Camera, S.K.Chamoli, S.Chmel, F.C.L.Crespi, J.M.Daugas, M.De Rydt, P.Detistov, C.Fahlander, E.Farnea, G.Georgiev, K.Gladnishki, R.Hoischen, M.Ionescu-Bujor, A.Iordachescu, J.Jolie, A.Jungclaus, M.Kmiecik, A.Krasznahorkay, R.Kulesa, S.Lakshmi, G.Lo Bianco, S.Mallion, K.Mazurek, W.Meczynski, D.Montanari, S.Myalski, O.Perru, D.Rudolph, G.Rusev, A.Saltarelli, R.Schwengner, J.Styczen, K.Turzo, J.J.Valiente-Dobon, O.Wieland, M.Zieblinski
g factor measurements on relativistic isomeric beams produced by fragmentation and U-fission: The g-RISING project at GSI
Acta Phys. Pol. B **38**, 1237-1247 (2007)
102. S.J.Steer, Zs.Podolyak, S.Pietri, P.H.Regan, D.Rudolph, E.Werner-Malento, A.B.Garnsworthy, R.Hoischen, M.Gorska, J.Gerl, H.J.Wollersheim, F.Becker, P.Bednarczyk, L.Caceres, P.Doornenbal, H.Geissel, J.Grebosz, A.Kelic, I.Kojouharov, N.Kurz, F.Montes, W.Prokopowicz, T.Saito, H.Schaffner, S.Tachenov, A.Heinz, M.Pfutzner, T.Kurtukian-Nieto, G.Benzoni, M.Hellstrom, A.Jungclaus, L.-L.Andersson, L.Atanasova, D.Balabanski, M.A.Bentley, B.Blank, A.Blazhev, C.Brandau, J.Brown, A.M.Bruce, F.Camera, W.N.Catford, I.J.Cullen, Zs.Dombradi, E.Estevez, C.Fahlander, W.Gelletly, G.Ilie, E.K.Johansson, J.Jolie, G.A.Jones, M.Kmiecik, F.G.Kondev, S.Lalkovski, Z.Liu, A.Maj, S.Myalski, T.Shizuma, A.J.Simons, S.Schwertel, P.M.Walker, O.Wieland
Identification of isomeric states 'South' of ^{208}Pb via projectile fragmentation
Acta Phys. Pol. B **38**, 1283-1286 (2007)
103. L.Caceres, M.Gorska, A.Jungclaus, P.H.Regan, S.J.Steer, A.B.Garnsworthy, S.Pietri, Zs.Podolyak, D.Rudolph, E.Werner-Malento, S.J.Steer, H.Grawe, R.Hoischen, D.L.Balabanski, F.Becker, P.Bednarczyk, G.Benzoni, B.Blank, C.Brandau, A.M.Bruce, F.Camera, W.N.Catford, I.J.Cullen, Zs.Dombradi, P.Doornenbal, E.Estevez, H.Geissel, W.Gelletly, J.Gerl, J.Grebosz, A.Heinz, G.Ilie, J.Jolie, G.A.Jones, A.Kelic, M.Kmiecik, I.Kojouharov, F.G.Kondev, T.Kurtukian-Nieto, N.Kurz, S.Lalkovski, Z.Liu, A.Maj, S.Myalski, F.Montes, M.Pfutzner, T.Saito, H.Schaffner, S.Schwertel, T.Shizuma, A.J.Simons, S.Tachenov, P.M.Walker, E.Werner-Malento, O.Wieland, H.J.Wollersheim
Identification of excited states in $N=Z$ nucleus ^{82}Nb
Acta Phys. Pol. B **38**, 1271-1275 (2007)

104. S.Pietri, P.H.Regan, Zs.Podolyak, D.Rudolph, M.Gorska, A.Jungclaus, M.Pfutzner, A.B.Garnsworthy, S.J.Steer, L.Caceres, E.Werner-Malento, R.Hoischen, J.Gerl, I.Kojouharov, H.Schaffner, H.J.Wollersheim, F.Becker, P.Bednarczyk, P.Doornenbal, H.Geissel, J.Grebosz, A.Kelic, N.Kurz, F.Montes, W.Prokopowicz, T.Saito, S.Tashenov, A.Heinz, T.Kurtukian-Nieto, G.Benzoni, M.Hellstrom, L.-L.Andersson, L.Atanasova, D.L.Balabanski, M.A.Bentley, B.Blank, A.Blazhev, C.Brandau, J.R.Brown, A.M.Bruce, F.Camera, W.N.Catford, I.J.Cullen, Zs.Dombradi, E.Estevez, C.Fahlander, W.Gelletly, G.Ilie, E.K.Johansson, J.Jolie, G.A.Jones, M.Kmiecik, F.G.Kondev, S.Lalkovski, Z.Liu, A.Maj, S.Myalski, T.Shizuma, A.J.Simons, S.Schwertel, P.M.Walker, O.Wieland
First results from the stopped beam isomer RISING campaign at GSI
Acta Phys. Pol. B **38**, 1255-1264 (2007)
105. 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.Hubel, R.Marginean, G.Neyens
Quadrupole moments for isomeric states with normal and intruder configurations in neutron-deficient Pb nuclei
Acta Phys. Pol. B **38**, 1249-1253 (2007)
106. A.Bracco, G.Benzoni, N.Biasi, S.Branilla, F.Camera, F.C.L.Crespi, S.Leoni, B.Million, D.Montanari, M.Pignanelli, O.Wieland, A.Maj, P.Bednarczyk, J.Grebosz, M.Kmiecik, W.Meczynski, J.Styczen, T.Aumann, A.Banu, T.Beck, F.Becker, A.Burger, L.Caceres, P.Doornenbal, H.Emling, J.Gerl, H.Geissel, M.Gorska, O.Kavatsyuk, M.Kavatsyuk, I.Kojouharov, N.Kurz, R.Lozeva, N.Saito, T.Saito, H.Schaffner, H.J.Wollersheim, J.Jolie, P.Reiter, N.Warr, G.de Angelis, A.Gadea, D.Napoli, S.Lenzi, S.Lunardi, D.Balabanski, G.Lo Bianco, C.Petrache, A.Saltarelli, M.Castrolli, A.Zucchiatti, J.Walker, and FRS collaboration
Coulomb excitation of ^{68}Ni at 600 A MeV
Acta Phys. Pol. B **38**, 1229-1236 (2007)

Acta Physica Hungarica New Series: Heavy Ion Physics, ISSN: 0231-4428,
Akademiai Kiado, Hungary

Conference papers

107. D.L.Balabanski, G.Rainovski, N.Biasi, G.Lo Bianco, G.Falconi, S.Signorelli, D.Bazzacco, G.de Angelis, D.R.Napoli, M.A.Cardona, A.J.Kreiner, H.Somacal
Excited states and terminating bands in $^{123,124}\text{I}$
Acta Phys. Hung. N.S. **6**, 275 (1997)
108. G.Neyens, N.Coulier, S.Teughels, S.Ternier, K.Vyvey, R.Coussement, D.L.Balabanski, J.M.Casandjian, M.Chartier, M.D.Cortina-Gil, M.Lewitowicz, W.Mittig, A.N.Ostrowski, P.Roussel-Chomaz, N.Alamanos, A.Lepine-Szily, W.Rogers
Quadrupole and magnetic moment measurements on spin-aligned projectile fragments
Acta Phys. Hung. N.S. **7**, 101 (1998)
109. G.Rainovski, G.Lo Bianco, D.L.Balabanski, G.Roussev, G.Falconi, N.Biasi, D.Bazzacco, G.de Angelis, D.R.Napoli, M.A.Cardona, A.J.Kreiner, H.Somacal, V.I.Dimitrov, J.-Y.Zhang, F.Donau
Tilted three-quasiparticle band in ^{123}Xe
Acta Phys. Hung. N.S. **12**, 211 (2000)

Il Nuovo Cimento A, ISSN: 0369-3546, Publisher: Editrice Compositori, Italy

Conference papers

110. N.Coulier, G.Neyens, S.Teughels, G.Georgiev, S.Ternier, K.Vyvey, R.Coussement, D.L.Balabanski, D.Cortina-Gil, M.Lewitowicz, W.Mittig, F.de Oliveira Santos, P.Roussel-Chomaz, W.Rogers, A.Lepine-Szily
The quadrupole moment of ^{18}N , measured with the level mixing resonance (LMR) method
Nuovo Cim. **111A**, 727 (1998)

Ядерная Физика (Physics of Atomic Nuclei), ISSN: 1063-7788,
MAIK Nauka/Interperiodica Publishing, Russia

Conference papers

111. G.Georgiev, D.L.Balabanski, C.Bingham, C.Borcea, N.Coulier, R.Coussement, J.M.Daugas, G.De France, F.de Oliveira Santos, G.Goldring, M.Gorska, H.Grawe, R.Grzywacz, M.Hass, C.O'Leary, M.Lewitowicz, H.Mach, I.Macovei, R.Page, M.Pfutzner, Yu.E.Penionzhkevich, Zs.Podolyak, P.H.Regan, K.Rykaczewski, M.Sawicka, N.A.Smirmova, Yu.G.Sobolev, M.Stanoiou, S.Teughels, K.Vyvey, G.Neyens
Measurement of the g factors of isomers near the proposed $N \approx 40$ subshell closure
Yad. Fiz. **64**, No 7, 1258 (2001); Phys. Atomic Nuclei **64**, 1181 (2001)

Journal de Physique, ISSN: 0302-0738,

112. E.I.Vapirev, P.S.Kamenov, D.L.Balabanski, S.I.Ormandjiev, K. Yanakiev
A coincidence Moessbauer experiment with ^{119m}Sn
J. de Physique **44**, 675 (1983)
113. D.L.Balabanski, E.I.Vapirev, P.S.Kamenov,
Influence of the hyperfine structure on the time-dependence of the Moessbauer transmission
J. de Physique **46**, 1387 (1985)

Progress in Particle and Nuclear Physics, ISSN: 0146-6410, Elsevier, Netherlands

Conference papers

114. R.M.Lieder, T.Rzaca-Urban, K.Strahle, G.Hebbinghaus, D.Balabanski, W.Gast, H.Schnare, W.Urban, P.von Brentano, A.Dewald, J.Eberth, E.Ott, J.Theuerkauf, H.Wolters, K.H.Maier, E.M.Beck, H.Hubel, W.Schmitz
Superdeformed bands and their crossing features in the Gd nuclei around $A = 146$
Prog.Part.Nucl.Phys. **28**, 225-234 (1992)
115. L.Atanasova, D.L.Balabanski, M.Hass, F.Becker, P.Bednarczyk, S.K.Chamoli, P.Doornenbal, G.Georgiev, J.Gerl, K.Gladnishki, M.Gorska, J.Grebosz, M.Kmiecik, S.Lakshmi, R.Lozeva, A.Maj, G.Neyens, M.Pfutzner, G.S.Simpson, N.Vermeulen, H.J.Wollersheim and the g-RISING colaboration
A RISING g-factor measurement of the $19/2^+$ isomer in ^{127}Sn
Prog.Part.Nucl.Phys. **59**, 355-357 (2007)

International Journal of Modern Physics E: Nuclear Physics,
ISSN: 0218-3013, World Scientific, Singapore

Conference papers

116. 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
First use of post-accelerated isomeric beams for Coulomb excitation studies of odd-odd nuclei around $N=40$
Int. J. Mod. Phys. **E 15**, 1505 (2006)
117. 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
Evidence for $X(5)$ critical point symmetry in ^{128}Ce
Int. J. Mod. Phys. **E 15**, 1735 (2006)
118. D.Tonev, P.Petkov, D.L.Balabanski, G.de Angelis, A.Gadea, D.R. Napoli, N.Marginean, A.Dewald, P.Pejovic, A.Fitzler, O.Moller, K.O.Zell, S.Brant, S.Frauendorf, D.Bazzacco, S.Lenzi, S.Lunardi, P.Bednarczyk, D.Curien, C.Petrache, Q.Zhong, Y.H.Zhang, Jing-Ye Zhang
Lifetime measurements in ^{134}Pr and chirality in nuclei
Int. J.Mod.Phys. **E 15**, 1531 (2006)

Nuclear Data Sheets, ISSN: 0090-3752,

119. S.Lalkovski, D.L.Balabanski, D.De Frenne
 $A=112$
Nucl. Data Sheets (submitted)

B. Papers in Bulgarian journals

Bulgarian Journal of Physics, ISSN: 1310-0157
St Kliment Ohridski University Press, Sofia, Bulgaria

120. P.S.Kamenov, E.Vapirev, S.I.Ormandjiev, T.B.Semova, B.D.Slavov, D.L.Balabanski, M.Ruseva
Radiation belt weigher: Error sources
Bulg. J. Phys. **10**, 618 (1983)
121. P.S.Kamenov, E.Vapirev, D.L.Balabanski, V.Tsacheva
Radiation device for distance and velocity measurements
Bulg. J. Phys. **11**, 119 (1984)
122. P.S.Kamenov, E.Vapirev, D.L.Balabanski
Scanning radiation belt weigher: High accuracy
Bulg. J. Phys. **12**, 491 (1985)
123. E.Vapirev, P.S.Kamenov, D.L.Balabanski
A variable radioisotope neutron source
Bulg. J. Phys. **12**, 552 (1985)
124. P.S.Kamenov, E.Vapirev, D.L.Balabanski
Estimates of radiation fields of α -sources
Bulg. J. Phys. **14**, 145 (1987)

Comptes Rendes de l'Academie bulgare des Sciences, ISSN: 0864-1459,
Marin Drinov Academic Publishing House, Sofia, Bulgaria

125. D.L.Balabanski, W.Gast, G.Hebbinghaus, A.Kramer-Flecken, R.M.Lieder, T.Rzaca-Urban, H.Schnare, W.Urban
Structure of the $23/2^-$ isomeric state in ^{185}Os
Compt Rend. Bulg. Acad. Sci. **49**, 145 (1996)
126. D.L.Balabanski, V.N.Gourev, D.Dimov
Model study of the mass balance of a coastal glacier at the Livingstone Island, Antarctica
Compt Rend. Bulg. Acad. Sci. **50**, 35-38 (1997)
127. G.Rainovski, D.L.Balabanski, G.Lo Bianco, G.Falconi, N.Biasi, D.Bazzacco, G.de Angelis, D.R.Napoli, M.A.Cardona, A.J.Kreiner, H.Somacal,
Is there a coexistence of low-K prolate and high-K oblate $\pi_{11/2}$ orbitals in ^{123}I
Compt Rend. Bulg. Acad. Sci. **51**, 37 (1998)

Analytical Laboratory, ISSN: 0861-4938, Spectrotech, Bulgaria

128. V.N.Gourev, S.Atanasov, K.Georgieva, D.L.Balabanski
Determination of trace element concentrations in glaciers at the Livingston Island, Antarctica by ICP-AES/USN
Analyt. Lab. **7**, 227 (1998)

Доклади на БЯД (BgNS Transactions BNS), ISSN: 1310-8727,
Bulgarian Nuclear Society, Sofia, Bulgaria

129. N.I.Nikolov, D.L.Balabanski, B.Akkus, C.W.Beausang, M.Bostan, R.F.Casten, M.Danchev, M.Djongolov, M.N.Erduran, S.Erturk, K.A.Gladnishki, G.Gurdal, T.M.Goon, D.J.Hartley, A.A.Hecht, J.R.Novak, Y.Oktem, G.Rainovski, L.L.Riedinger, N.V.Zamfir, O.Zeidan, I.Yigitoglu
High-spin states and shape changes in the transitional $^{185-190}\text{Ir}$ nuclei
Transactions BNS

C. Papers in conference proceedings

AIP Conference Proceedings, ISSN: 0094-243X, American Institute of Physics, USA

130. S.Teughels, G.Neyens, N.Coulier, G.Georgiev, S.Ternier, K.Vyvey, D.L.Balabanski, R.Coussement, W.F.Rogers, D.Cortina-Gil, F.de Oliveira, M.Lewitowicz, W.Mittig, P.Roussel-Chomaz, A.Lepine-Szily
The magnetic and quadrupole moment of oriented nuclei measured with the β -LMR-NMR
ENAM98: Exotic Nuclei and Atomic Masses, East Lansing, Eds. B.M.Sherrill, D.J.Morrissey, C.N.Davids, AIP Conf. Proc. **455**, 138-141 (1998)
131. D.J.Hartley, M.Djongolov, L.L.Riedinger, F.G.Kondev, R.V.F.Janssens, K.Abu Saleem, I.Ahmad, D.L.Balabanski, M.P.Carpenter, P.Chowdhury, D.M.Cullen, M.Danchev, G.D.Dracoulis, H.El-Masri, J.Goon, A.Heinz, R.A.Kaye, T.L.Khoo, T.Lauritsen, C.J.Lister, E.F.Moore, M.A.Riley, D.Seweryniak, I.Shestakova, G.Sletten, P.M.Walker, C.Wheldon, I.Wiedenhover, O.Zeidan, J.-Y.Zhang
Possible triaxial superdeformation in ^{174}Hf

- Mapping the Triangle: Int. Conf. on Nucl. Structure, Grand Teton Nat. Park, Eds. A.Aprahamian, J.A.Cizewski, S.Pittel, N.V.Zamfir; AIP Conf. Proc. **638**, 119-123 (2002)
132. K.Vyvey, G.Neyens, D.L.Balabanski, D.Borremans, S.Chmel, N.Coulier, R.Coussement, W.De Clercq, S.Frauentorf, G.Georgiev, H.Hubel, N.Nenoff, A.M.Oros, S.Pancholi, D.Rossbach, R.Schwengner, S.Teughels, K.Heyde
Quadrupole Moments of the 1I Intruder Isomers in ^{194, 196}Pb
Proc. Inter. Nuclear Physics Conference, Berkeley, California, 30 July - 3 August 2001, Eds. E.Norman, L.Schroeder, G.Wozniak; AIP Conf. Proc. **610**, 849-853 (2002)
133. D.J.Hartley, M.Djongolov, L.L.Riedinger, F.G.Kondev, R.V.F.Janssens, K.Abu Saleem, I.Ahmad, D.L.Balabanski, M.P.Carpenter, P.Chowdhury, D.M.Cullen, M.Danchev, G.D.Dracoulis, H.El-Masri, J.Goon, A.Heinz, R.A.Kaye, T.L.Khoo, T.Lauritsen, C.J.Lister, E.F.Moore, M.A.Riley, D.Seweryniak, I.Shestakova, G.Sletten, P.M.Walker, C.Wheldon, I.Wiedenhover, O.Zeidan, J.-Y.Zhang
Possible triaxial superdeformation in ¹⁷⁴Hf
Proc. Frontiers of Nuclear Structure, Berkeley, California, Eds. P.Fallon and R.Clark; AIP Conf. Proc. **656**, 177-183 (2003)
134. G.Georgiev, G.Neyens, M.Hass, D.L.Balabanski, C.Bingham, C.Borcea, N.Coulier, R.Coussement, J.M.Daugas, G.de France, F.de Oliveira Santos, M.Gorska, H.Grawe, R.Grzywacz, M.Lewitowicz, H.Mach, I.Matea, R.D.Page, M.Pfutzner, Yu.E.Penionzhkevich, Z.Podolyak, P.H.Regan, K.Rykaczewski, M.Sawicka, N.A.Smirnova, Yu.Sobolev, M.Stanoi, S.Teughels, K.Vyvey
g-factor measurements of isomeric states in neutron rich nuclei
Proc. Frontiers of Nuclear Structure, Berkeley, California, Eds. P.Fallon and R.Clark; AIP Conf. Proc. **656**, 226-232 (2003)
135. G.Georgiev, I.Matea, J.M.Daugas, M.Hass, R.Astabatyan, L.T.Baby, D.L.Balabanski, G.Belier, D.Borremans, G.Goldring, H.Goutte, P.Himpe, M.Lewitowicz, S.Lukyanov, V.Meot, F.de Oliveira Santos, Yu.E.Penionzhkevich, O.Roig, M.Sawicka
Nuclear alignment in projectile fragmentation as a tool for moment measurements
Int. Conf. The Labirinth in Nuclear Structure, Crete, Greece, Eds. A.Bracco, S.A.Kalfas, AIP Conf. Proc. **701**, 169-173 (2004)
136. D.Tonev, G.de Angelis, P.Petkov, A.Dewald, A.Gadea, P.Pejovic, D.Balabanski, P.Bednarczyk, F.Camera, A.Fitzler, M.Axiotis, D.Bazzacco, E.Farnea, S.Lenzi, S.Lunardi, N.Marginean, T.Martinez, R.Menegazzo, O.Moller, D.R.Napoli, A.Paleni, C.Petrache, G.Prete, B.R.Behera, C.Rusu, C.Ur, K.O.Zell, Y.H.Zhang
Transition probabilities and chiral symmetry in ¹³⁴Pr
Proc. Nuclei at the Limits, Argonne, Illinois, Eds. D.Seweryniak and T.L.Khoo; AIP Conf. Proc. **764**, 93-98 (2005)
137. D.L.Balabanski
Recent results on magnetic and chiral rotation in the vicinity of the Z=82 shell
Proc. Frontiers of Nuclear Structure, Astrophysics and Reactions (FINUSTAR), Kos, Greece, Eds. S.V.Harissopulos, V.Demetriou, R.Julin; AIP Conf. Proc. **831**, 268-272 (2006)
138. M.Ionescu-Bujor, A.Iordachescu, N.Marginean, C.A.Ur, D.Bucurescu, G.Suliman, C.Rusu, D.L.Balabanski, D.Bazzacco, F.Brandolini, S.Chmel, M.De Poli, H.Hubel, N.Medina, G.Neyens, P.Pavan, G.Ribas, C.Rossi Alvarez
Shape-coexistence in the Pb nuclei probed by static electromagnetic moments

- Proc. Frontiers of Nuclear Structure, Astrophysics and Reactions (FINUSTAR), Kos, Greece, Eds. S.V.Harissopulos, V.Demetriou, R.Julin;
AIP Conf. Proc. **831**, 278-282 (2006)
139. G.Kalyva, A.Spirou, M.Axiotis, S.Harissopulos, A.Dewald, A.Fitzler, B.Saha, A.Linnemann, R.Vlastou, D.R.Napoli, N.Marginean, C.Rusu, G.de Angelis, C.Ur, D.Bazzacco, E.Farnea, D.L.Balabanski, R.Julin
Plunger lifetime measurements in ^{102}Pd
Proc. Frontiers of Nuclear Structure, Astrophysics and Reactions (FINUSTAR), Kos, Greece, Eds. S.V.Harissopulos, V.Demetriou, R.Julin;
AIP Conf. Proc. **831**, 472-474 (2006)
140. D.Tonev, G.de Angelis, P.Petkov, A.Dewald, S.Brant, S.Frauendorf, Q.Zhong, D.Balabanski, A.Gadea, P.Pejovic, A.Fitzler, D.Bazzacco, S.Lenzi, S.Lunardi, N.Marginean, O.Moller, D.R.Napoli, K.O.Zell, Jing-ye Zhang, Y.H.Zhang
Check for chirality in nuclear physics
Proc. Frontiers of Nuclear Structure, Astrophysics and Reactions (FINUSTAR), Kos, Greece, Eds. S.V.Harissopulos, V.Demetriou, R.Julin;
AIP Conf. Proc. **831**, 554-556 (2006)
141. D.L.Balabanski
Electromagnetic moments of exotic nuclei: Recent studies
Proc. 6th Conf. of the Balkan Physical Union, Istanbul, Turkey, 2006,
AIP Conf. Proc. **899**, 7-10 (2007)
142. P.H.Regan, A.B.Garnsworthy, S.J.Steer, S.Pietri, Zs.Podolyak, D.Rudolph, M.Gorska, L.Caceres, E.Werner-Malento, J.Gerl, H.J.Wollersheim, F.Becker, P.Bednarczyk, P.Doornenbal, H.Geissel, J.Grebosz, R.Hoischen, A.Kelic, I.Kojouharov, N.Kurz, F.Montes, W.Prokopwicz, T.Saito, H.Schaffner, S.Tashenov, A.Heinz, M.Pfützner, T.Kurtukian-Nieto, G.Benzoni, M.Hellstrom, A.Jungclaus, L.-L.Andersson, L.Atanasova, D.Balabanski, M.A.Bentley, B.Blank, A.Blazhev, C.Brandau, J.Brown, A.M.Bruce, F.Camera, W.N.Catford, I.J.Cullen, Zs.Dombradi, E.Estevez, C.Fahlander, W.Gelletly, G.Ilie, E.K.Johansson, J.Jolie, G.A.Jones, M.Kmiecik, F.G.Kondev, S.Lalkovski, Z.Liu, A.Maj, S.Myalski, S.Schwerte, T.Shizuma, A.J.Simons, P.M.Walker, O.Wieland
First results from the stopped RISING campaign at GSI: The mapping of isomeric decays in highly exotic nuclei
Proc. 6th Conf. of the Balkan Physical Union, Istanbul, Turkey, 2006,
AIP Conf. Proc. **899**, 19-22 (2007)
143. P.Doornenbal, A.Bürger, D.Rudolph, H.Grawe, H.Hübel, P.H.Regan, P.Reiter, A.Banu, T.Beck, F.Becker, P.Bednarczyk, L.Caceres, H.Geissel, J.Gerl, M.Górska, J.Grebosz, M.Kavatsyuk, O.Kavatsyuk, A.Kelic, I.Kojouharov, N.Kurz, R.Lozeva, F.Montes, W.Prokopowicz, N.Saito, T.Saito, H.Schaffner, S.Tashenov, H.Weick, M.Winkler, H.J.Wollersheim, A.Al-Khatib, L.-L.Andersson, L.Atanasova, D.L.Balabanski, M.A.Bentley, G.Benzoni, A.Blazhev, A.Bracco, A.Brambilla, C.Brandau, P.Bringel, J.R.Brown, F.Camera, S.Chmel, E.Clément, F.C.L.Crespi, C.Fahlander, A.B.Garnsworthy, A.Görgen, G.Hammond, M.Hellström, R.Hoischen, H.Honma, E.K.Johansson, A.Jungclaus, M.Kmiecik, W.Korten, A.Maj, S.Mandal, W.Meczynski, B.Million, A.Neußer, F.Nowacki, T.Otsuka, S.Pietri, Zs.Podolyák, A.Richard, M.Seidlitz, S.J.Steer, T.Striepling, T.Utsuno, J.Walker, N.Warr, C.Wheldon, O.Wieland
RISING: Gamma-ray Spectroscopy with Radioactive Beams at GSI
Proc. of Tours Symposium on Nuclear Physics VI (Tours, France, 2006),
AIP Conf. Proc. **891**, 99-107 (2007)

144. T.Konstantinopoulos, A.Lagoyannis, S.Harissopoulos, A.Dewald, W.Rother, G.Ilie, P.Jones, P.Rakhila, P.Greenlees, T.Grahn, R.Julin, D.L.Balabanski
¹²⁸Xe Lifetime Measurement Using the Coulex-Plunger Technique in Inverse Kinematics
Proc. Frontiers of Nuclear Structure, Astrophysics and Reactions (FINUSTAR 2), Crete, Greece, 2007, Eds. V.Demetriou, R.Julin, S.V.Harissopoulos;
AIP Conf. Proc. **1012**, 377-379 (2008)
145. Radomira Lozeva, Gary Simpson, Gerda Neyens, Hubert Grawe, Dimitar Balabanski for the g-RISING collaboration
Yrast Isomers in the Vicinity of ¹³²Sn
Proc. CGC13, Koeln, Germany, 2008 (in print)
146. Wolfram Rother, Alfred Dewald, Gabriela Ilie, Thomas Pissulla, Barbara Melon, Jan Jolie, Gheorghe Pascovici, Hironori Iwasaki, Matthias Hackstein, Karl-Oskar Zell, Rauno Julin, Peter Jones, Paul Greenlees, Panu Rakhila, Juha Uusitalo, Cath Scholey, Sotirios Harissopoulos, Anastasios Lagoyannis, Theodore Konstantinopoulos, Tuomas Grahn, Dimitar Balabanski, Pavel Petkov
Development of a New Recoil Distance Technique Using Coulomb Excitation in Inverse Kinematics
Proc. CGC13, Koeln, Germany, 2008 (in print)
147. J.M.Daugas, L.Gaudefroy, M.Hass, J.C.Angélique, D.L.Balabanski, E.Fiori, C.Force, G.Georgiev, S.Grévy, D.Kamedak, V.Kumar., R.Lozeva, I.Matea, V.Méot, P.Morel, B.S.Nara Singh, L.Perrot, G.S.Simpson, Ch.Stodel, J.C.Thomas
Magnetic moment of ^{43m}S
Proc. Nuclear Physics and Astrophysics Conference: From Stable Beams to Exotic Nuclei, Cappadokia, Turkey, 2008 (in print)

Balkan Physics Letters: ISSN: 1301-8329, University of Istanbul, Turkey

148. D.L.Balabanski
Band termination spectroscopy in ¹⁸⁶Os and ¹²⁵I
Proc. 2nd Conf. Balkan Phys. Union, Ismir, Turkey, 1994
Balk. Phys. Lett. **2**, 45 (1994)
149. D.L.Balabanski, V.N.Gourev, S.Atanasov
Trace element concentrations in glaciers at Livingston Island, Antarctica
Balk. Phys. Lett. **5**, 77 (1997)
150. G.Rainovski, D.L.Balabanski, G.Lo Bianco, G.Falconi, N.Biasi, D.Bazzacco, G.de Angelis, D.R.Napoli, M.A.Cardona, A.J.Kreiner, H.Somacal,
The single-particle structure of ¹²³I
Proc. 1st Int. Balkan School on Nucl. Phys., Baltalimani, Istanbul, Turkey, Eds. E.Rizaoglu, M.Arik, M.Bostan, M.N.Erduran
Balk. Phys. Lett. Special Issue (1998) 207
151. M.Mineva, D.L.Balabanski, G.Neyens, R.Coussement
Quadrupole moments of isomeric states in ²¹⁵Ra
Proc. 1st Int. Balkan School on Nucl. Phys., Baltalimani, Istanbul, Turkey, Eds. E.Rizaoglu, M.Arik, M.Bostan, M.N.Erduran
Balk. Phys. Lett. Special Issue (1998) 263
152. M.Danchev, D.L.Balabanski, R.M.Lieder
Study of triaxial deformation associated with the $\nu_{13/2}$ orbital in the A=180 mass region
Proc. 1st Int. Balkan School on Nucl. Phys., Baltalimani, Istanbul, Turkey, Eds. E.Rizaoglu, M.Arik, M.Bostan, M.N.Erduran

- Balk. Phys. Lett. Special Issue (1998) 232
153. K.Vyvey, G.Neyens, S.Ternier, N.Coulier, S.Teughels, G.Georgiev, G.Scheveneels, F.Hardeman, S.Heeren, R.Nouwen, R.Wyckmans, R.Coussement, D.L.Balabanski, M.Mineva
Study of quadrupole moments of high-spin isomers with the LEMS method
 Proc. 1st Int. Balkan School on Nucl. Phys., Baltalimani, Istanbul, Turkey, Eds. E.Rizaoglu, M.Arik, M.Bostan, M.N.Erduran
 Balk. Phys. Lett. Special Issue (1998) 259
154. G.Georgiev, G.Neyens, N.Coulier, S.Teughels, S.Ternier, K.Vyvey, D.L.Balabanski, R.Coussement, W.F.Rogers, D.Cortina-Gil, F.de Oliveira Santos, M.Lewitowicz, W.Mittig, P.Roussel-Chomaz, A.Lepine-Szily, P.F.Mantica
Application of nuclear magnetic resonance, level mixing resonance and their combination for measurement of nuclear magnetic and quadrupole moments
 Proc. 1st Int. Balkan School on Nucl. Phys., Baltalimani, Istanbul, Turkey, Eds. E.Rizaoglu, M.Arik, M.Bostan, M.N.Erduran
 Balk. Phys. Lett. Special Issue (1998) 250
155. D.Balabanski, B.Akkus, M.Yilmaz, L.Amon (editors)
 Proceedings of the 4th International Balkan School on Nuclear Physics, 22th – 29th Sept. 2004, Bodrum, Turkey
 Phys. Lett. Special Issue (2004) pp.1-362
156. K.A.Gladnishki, D.L.Balabanski, P.Petkov, A.Dewald, D.Tonev, M.Axiotis, A.Fitzler, M.Danchev, S.Harissopulos, S.Lalkovski, N.Marginean, T.Martinez, O.Moeller, G.Neyens, A.Spyrou, E.A.Stefanova, C.Ur
Lifetimes in the $\nu_{13/2}^{-1} \otimes \pi(i_{13/2}h_{9/2})$ M1 band in ^{193}Pb
 Proc. 4th Int. Balkan School on Nucl. Phys., Bodrum, Turkey, Eds. D.Balabanski, B.Akkus, M.Yilmaz, L.Amon, Balk. Phys. Lett. Special Issue (2004) 239
157. L.Atanasova, D.L.Balabanski, K.A.Gladnishki, M.Danchev, P.Detistov, N.I.Nikoov, G.Rainovski, G.Rusev, K.D.Schilling, R.Schwengner, A.Jungclaus, D.R.Napoli, T.Strinhardt, O.Thelen, D.Curien, B.Gall, G.Duchene, P.Joshi
Single-particle rotational bands in ^{185}Ir
 Proc. 4th Int. Balkan School on Nucl. Phys., Bodrum, Turkey, Eds. D.Balabanski, B.Akkus, M.Yilmaz, L.Amon, Balk. Phys. Lett. Special Issue (2004) 196
158. A.Blazhev, M.Gorska, H.Grawe, J.Nyberg, M.Palacz, E.Caurier, O.Dorvaux, A.Gadea, F.Nowacki, C.Andreoiu, G.de Angelis, D.Balabanski, Ch.Beck, B.Cederwall, D.Curien, J.Doring, J.Ekman, C.Fahlander, K.Lagergren, J.Ljungvall, M.Moszynski, L.-O.Norlin, C.Plettner, D.Rudolph, D.Sohler, K.M.Spohr, O.Thelen, M.Weiszflog, M.Wisell, M.Wolinska, W.Wolski
Delayed spectroscopy of ^{98}Cd
 Proc. 4th Int. Balkan School on Nucl. Phys., Bodrum, Turkey, Eds. D.Balabanski, B.Akkus, M.Yilmaz, L.Amon, Balk. Phys. Lett. Special Issue (2004) 205
159. R.Lozeva, J.Gerl, M.Gorska, S.Mandal, D.Balabanski, I.Kojouharov, F.Becker, J.Grebosz, P.Bednarczyk, A.Banu, P.Doornenbal, H.-J.Wollersheim
Position sensitive calorimeter telescope for relativistic heavy-ion reaction channels identification
 Proc. 4th Int. Balkan School on Nucl. Phys., Bodrum, Turkey, Eds. D.Balabanski, B.Akkus, M.Yilmaz, L.Amon, Balk. Phys. Lett. Special Issue (2004) 278
160. N.I.Nikoov, D.Balabanski, M.Danchev, K.A.Gladnishki, G.I.Rainovski
Particle-plus-triaxial-rotor model calculations for transitional Ir and Au nuclei in the $A \approx 190$ mass region

- Proc. 4th Int. Balkan School on Nucl. Phys., Bodrum, Turkey, Eds. D.Balabanski, B.Akkus, M.Yilmaz, L.Amon, Balk. Phys. Lett. Special Issue (2004) 291
161. D.Tonev, G. de Angelis, P.Petkov, A.Dewald, T.Klug, D.L.Balabanski, A.Gadea, P.Pejovic, A.Fitzler, N.Marginean, D.R.Napoli, J.Jolie, R.F.Casten, S.Heinze, P.von Brentano, D.Carlucci, D.Bazzacco, G.Prete, S.Lunardi
Lifetime measurements: A powerful tool for checking the existence of dynamical symmetries in nuclei
Proc. 4th Int. Balkan School on Nucl. Phys., Bodrum, Turkey, Eds. D.Balabanski, B.Akkus, M.Yilmaz, L.Amon, Balk. Phys. Lett. Special Issue (2004) 317

Papers in separate issues

162. Y.Y.Shopov, D.L.Balabanski, V.Gurev
Direct radiometric measurements in a Himalayan glacier
Proc. 15th Regional Congress of IRPA on Radioecology of Natural and Artificial Radionuclides, Visby, Sweden, ed. W.Feldt
163. W.Urban, J.C.Bacelar, J.R.Jongman, R.F.Noorman, D.Balabanski, W.Gast, G.Hebbinghaus, A.Kramer-Flecken, R.M.Lieder, T.Morek, T.Rzaca-Urban, H.Schnare, M.Thoms, D.Alber, H.Grawe, H.Grawe, J.Nyberg, P.P.Singh, O.Zell, W.Nazarewicz
New experimental evidence for octupole correlations Lanthanides
Proc. Int. Conf. on High Spin Physics and Gamma-Soft Nuclei, Pittsburgh, PA, USA, 1990 (World Scientific, 1991, ISBN: 981-02-0428-0) pp.196-210
KVI Groningen Preprint, **KVI-855** (1990)
164. D.L.Balabanski
Structure of Os-Ir nuclei in the A=180 mass region at high angular momenta
PhD thesis, St. Kliment Ohridski University of Sofia, 1993 (in Bulgarian)
165. D.L.Balabanski
High-spin structure of odd-A Os nuclei
Proc. 2nd Adriatic Research Conf. on Polarization Dynamics in Nuclear and Particle Physics, Trieste, Italy, 1992, Eds. A.O.Barut, N.Paver, A.Penzo, R.Raczka (World Scientific, 1993, ISBN: 981-02-1423-5) pp. 304-311
166. D.L.Balabanski, D.Hr.Hristov, R.M.Lieder, W.Gast, T.Kutsarova, T.Rzaca-Urban, H.Schnare, W.Urban
Rotational properties of the Osmium nuclei in the A=180 mass region
Proc. Int. School-Seminar on Heavy-Ion Physics, Dubna, 1993, Eds. Yu.Ts.Oganesian, Yu.E.Penionzhkevich, R.Kalpakchieva, vol.1 (JINR, Dubna, 1993) E7-93-274, pp.455-465
167. G.Neyens, N.Coulier, S.Ternier, K.Vyvey, R.Coussement, D.Balabanski, J.M.Casandjian, M.Chartier, M.D.Cortina-Gil, M.Lewitowicz, W.Mittig, A.N.Ostrowski, P.Roussel-Chomaz, N.Alamanos, A.Lepine-Szily
Nuclear spin alignment and quadrupole moment of light projectile fragments studied with the Level Mixing Resonance (LMR) method
Int. Workshop on Phys. Of Unstable Nuclear Beams, Serra Negra, Brazil, 1996, eds. C.A.Bertulani, L.F.Canto, M.S.Hussein (World Scientific, 1997) pp. 346-353
168. T.Badica, D.Balabanski, V.Cojocar, V.Gourev, O.Guguianu, A.Olariu, I.V.Popescu
Determination of pollutants in Antarctic samples by atomic and nuclear analytical methods
Int. Conf. on Nuclear Data for Science and Technology, Trieste, Italy, 1997, Eds. G.Reffo, A.Ventura, C.Grandi, Conf. Proc. **59** (SIF, 1997, ISBN: 88-7794-114-6) pp.1389-1391
169. D.Balabanski, A.Minkova, G.I.Rainovski, M.Danchev, M.N.Erduran, B.Akkus, M.Bostan, G.Gurdal, M.Yalcinkaya, 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, J.V.Pilcher, F.D.Smit, J.F.Sharpey-Schafer
Study of mass $A=130$ fission fragments in the $^{14}\text{N} + ^{235}\text{U}$ reaction at 10 MeV/u
 Conference Nucleus: New Physics for the New Millenium, Cape Town, 1999, Eds. F.D.Smit, R.Lindsay, S.V.Fortsch (Kluwer Academic, New York, 1999, ISBN: 0-306-46302-4) pp. 63-67
170. K.Vyvey, G.Neyens, D.L.Balabanski, S.Ternier, N.Coulier, S.Teughels, G.Georgiev, R.Coussement,
Measuring quadrupole moments in a recoil-shadow geometry using the LEMS method
 Conference Nucleus: New Physics for the New Millenium, Cape Town, 1999, Eds. F.D.Smit, R.Lindsay, S.V.Fortsch (Kluwer Academic, New York, 1999, ISBN: 0-306-46302-4) pp. 457-462
171. K.Vyvey, G.Neyens, D.L.Balabanski, D.Borremans, N.Coulier, R.Coussement, W.De Clercq, S.Frauentorf, G.Georgiev, S.Teughels, S.Chmel, H.Hubel, N.Nenoff, S.Pancholi, D.Rossbach, R.Schwengner
The use of the Level Mixing spectroscopy technique for the study of quadrupole moments in the Pb-region
 Conference Bologna 2000: Structure of the Nucleus at the Dawn of the Century, Eds. G.C.Bonsignori, M.Bruno, A.Ventura, D.Vretenar (World Scientific, 2001, ISBN: 981-02-4732-X) pp. 213-215
172. E.A.Stefanova, R.Schwengner, M.Danchev, G.Rainovski, D.L.Balabanski, M.Axiotis, G.de Angelis, M.Djongolov, F.Donau, A.Gadea, E.Galindo, D.J.Hartley, A.Jungclaus, Th.Kroll, T.Kutsarova, K.P.Lieb, N.Marginean, T.Martinez, W.F.Mueller, W.Reviol, L.L.Riedinger, K.D.Schilling, J.Eberth, O.Thelen, C.A.Ur, A.Wagner, O.Zeidan
Structure of high-spin states in ^{90}Sr and ^{92}Sr
 Int. Symp. On Nuclear Structure Physics: Celebrating the career of Peter von Brentano, Goettingen, Germany, 2001, Eds. R.Casten, J.Jolie, U.Kneissl, P.Lieb (World Scientific, 2001, ISBN: 981-02-4654-4) pp. 73-78
173. D.L.Balabanski, M.Danchev, D.J.Hartley, L.L.Riedinger, O.Zeidan, J.Zhang, C.J.Barton, C.W.Beausang, M.A.Caprio, R.F.Casten, J.R.Cooper, A.A.Hecht, R.Krucken, J.R.Novak, N.V.Zamfir, K.E.Zyromski
Chiral rotation in ^{188}Ir
 Int. Symp. On Nuclear Structure Physics: Celebrating the career of Peter von Brentano, Goettingen, Germany, 2001, Eds. R.Casten, J.Jolie, U.Kneissl, P.Lieb (World Scientific, 2001, ISBN: 981-02-4654-4) pp. 325-326
174. G.Georgiev, G.Neyens, D.L.Balabanski, C.Bingham, C.Borcea, N.Coulier, R.Coussement, J.M.Daugas, G.De France, M.Gorska, H.Grawe, R.Grzywacz, M.Hass, M.Lewitowicz, H.Mach, I.Matea, F.de Oliveira Santos, R.D.Page, M.Pfutzner, Yu.E.Penionzhkevich, Z.Podolyak, P.H.Regan, K.Rykaczewski, M.Sawicka, N.A.Smirnova, Y.G.Sobolev, M.Stanoiou, S.Teughels, K.Vyvey
Gyromagnetic factors of isomers in the neutron-rich $N=40$ nuclei: The case of ^{69}Cu
 Int. Symp. On Nuclear Structure Physics: Celebrating the career of Peter von Brentano, Goettingen, Germany, 2001, Eds. R.Casten, J.Jolie, U.Kneissl, P.Lieb (World Scientific, 2001, ISBN: 981-02-4654-4) pp. 357-358
175. M.Danchev, D.L.Balabanski, I.Yigitoglu, B.Akkus, C.W.Beausang, M.Bostan, R.F.Casten, M.K.Djongolov, M.N.Erduran, S.Erturk, K.A.Gladnishki, G.Gurdal, J.Goon, D.J.Hartley, A.A.Hecht, R.Krucken, J.R.Novak, Y.Oktem, G.Rainovski, L.L.Riedinger, N.V.Zamfir, O.Zeidan
Origin of the backbending in the $\pi h_{9/2}$ band of ^{187}Ir

- Meetings in Physics at University of Sofia, vol. 3,
ed. A.Proykova (Heron Press, Sofia, 2001)
176. D.L.Balabanski, G.Neyens, D.Borremans, N.Coulier, J.-M.Daugas, S.Teughels, G.Georgiev, M.Lewitowicz, Yu.E.Penionzhkevich
Experiments with exotic spin-oriented nuclear beams and examples of nuclear moment measurements
EXON'01: Int. Symposium on Exotic Nuclei, Lake Baikal, Russia, 2001, eds. Yu.E.Penionzhkevich, E.A.Cherepanov (World Scientific, 2002, ISBN: 981-238-025-6) pp. 404-415
177. D.L.Balabanski, V.N.Gurev, M.Danchev, T.Badica, I.V.Popescu, A.Olariu, O.Gurguianu, I.Stefanescu
Studies of trace elements in glaciers at the Livingston Island, Antarctica
Proc. Int. Conf. on Applications of High-Precision Atomic and Nuclear Methods, Neptun, Romania, 2003, Eds. A.Olariu, K.Stenstroem, R.Hellborg (Editura Academiei Romane, 2005, ISBN: 973-27-1181-7) pp. 3-11
178. D.L.Balabanski, G.Neyens
Spin-orientation of exotic nuclear beams at intermediate energies
Proc. 3rd Int. Balkan Conf. on Physics Applications, Tirgovishte, Romania, 2003, Romanian Journal of Physics **48**, 19-26 (2003), ISSN: 1221-146X
179. N.I.Nikolov, M.Danchev, D.L.Balabanski, I.Yigitoglu, B.Akkus, C.W.Beausang, M.Bostan, R.F.Casten, M.Djongolov, M.N.Erduran, S.Erturk, K.A.Gladnishki, G.Gurdal, T.M.Goon, D.J.Hartley, A.A.Hecht, J.R.Novak, Y.Oktem, G.Rainovski, L.L.Riedinger, N.V.Zamfir, O.Zeidan
Search of chiral doublet bands at ^{186,188}Ir
Proc. 22th Int. Workshop on Nuclear Theory, Rila Mountains, Bulgaria, 2003, ed. V.Nikolaev (Heron Press, Sofia, 2003) ISBN: 954-580-150-5, pp. 331-334
180. D.L.Balabanski, G.Neyens, K.Vyvey
Quadrupole moments and deformations of "shears" states in the Z=82 Pb nuclei
Symmetries in Nuclear Structure: An Occasion to Celebrate the 60th Birthday of Francesco Iachello, Erice, Italy, 2003, ed. A.Vituri, R.F.Casten (World Scientific, 2004, ISBN: 981-238-818-5) pp. 280-286
181. J.M.Daugas, G.Belier, M.Girot, H.Goutte, V.Meot, O.Roig, I.Matea, G.Georgiev, M.Lewitowicz, F.de Oliveira Santos, M.Hass, L.T.Baby, G.Goldring, G.Neyens, D.Borremans, P.Himpe, R.Astabyan, S.Lukyanov, Yu.E.Penionzhkevich, D.L.Balabanski, M.Sawicka
Magnetic moment measurements of neutron-rich $vg_{9/2}$ isomeric states
Key Topics in Nuclear Structure, Proc. 8th Int. Spring Seminar on Nuclear Phys., Paestum, Italy, 2004, Ed. A.Covello (World Scientific, 2005, ISBN: 981-256-093-9) p. 257
182. J.M.Daugas, G.Belier, M.Girot, H.Goutte, V.Meot, O.Roig, I.Matea, G.Georgiev, M.Lewitowicz, F.de Oliveira Santos, M.Hass, L.T.Baby, G.Goldring, G.Neyens, D.Borremans, P.Himpe, R.Astabyan, S.Lukyanov, Yu.E.Penionzhkevich, D.L.Balabanski, M.Sawicka
Nuclear moment measurements of spin-aligned isomeric fragments
EXON'04: Int. Symposium on Exotic Nuclei, Peterhof, Russia, 2004, eds. Yu.E.Penionzhkevich, E.A.Cherepanov (World Scientific, 2005, ISBN: 981-256-392-X) p. 524
183. D.L.Balabanski
Study of magnetic rotation in ¹⁹³Pb: An example of collaboration between Southeastern European research teams (invited talk)

- 14th Hellenic Symposium on Nuclear Physics, Athens, Greece, eds. M.Kokoris, P.Vlastu (Symetria, Athens, 2005) p.128
184. P.Detistov, D.L.Balabanski, Zs.Podolyak
Electromagnetic background radiation Monte-Carlo simulations for relativistic heavy ion collisions
 Meetings in Physics at University of Sofia, vol. **7**,
 ed. A.Proykova (Heron Press, Sofia, 2006) pp....
185. 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.Kojuharov, 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.Deyanova, G.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.Biasi, 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, N.V.Zamfir, A.Jungclaus, G.Georgiev, D.M.Cullen, S.J.Freeman, A.G.Smith, R.Orlandi, M.A.Bentley, G.Hammond, R.Wadsworth, A.Buerger, H.Hubel, D.Rudolph, C.Fachlander, R.D.Herzberg, R.D.Page, P.Nolan, T.Davidson, P.Woods, T.Faestermann, R.Kruecken, B.Rubio, A.Algora
 Rare isotope investigations at GSI (RISING) using relativistic ion beams
 Exotic Nuclei and Nuclear/Particle Astrophysics, Proceedings of the Carpathian Summer School of Physics 2005, eds. S. Stoica, L.Trache and R.E.Tribble (World Scientific, Singapore, 2006)
186. L.Atanasova, D.L.Balabanski, M.Hass, D.Bazzacco, F.Becker, P.Bednarczyk, G.Benzoni, A.Blazhev, N.Biasi, 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
g-factor measurement at RISING: The case of ¹²⁷Sn
 Proc. 25th Int. Workshop on Nuclear Theory, Rila Mountains, Bulgaria, 2006, ed. S.Dimitrova (DioMira, Sofia, 2006) pp.161-171
187. D.L.Balabanski
Shapes of atomic nuclei: Recent experiments and open questions
 Proc. 25th Int. Workshop on Nuclear Theory, Rila Mountains, Bulgaria, 2006, ed. S.Dimitrova (DioMira, Sofia, 2006) pp.255-265
188. G.Deyanova, D.L.Balabanski, B.Akkus, L.Atanasova, P.Can, P.Detistov, K.Galdnishki, M.N.Erduran, E.A.Lawrie, J.J.Lawrie, A.Minkova, S.M.Mullins, J.Ncapayi, G.Rainovski, J.F.Sharpey-Schafer
High spin states in ¹³⁶La
 Proc. 26th Int. Workshop on Nuclear Theory, Rila Mountains, Bulgaria, 2007, ed. S.Dimitrova (DioMira, Sofia, 2006, IFSN 1313-2822) pp.149

D. Contributions to Annual reports of scientific institutes

189. W.Gast, D.L.Balabanski, B.Bochev, G.Hebbinghaus, H.Jaeger, A.Kramer-Flecken, R.M.Lieder, H.Schnare, Ch.Senff, M.Thoms, W.Urban, P.von Brentano, J.Eberth, H.Hubel, K.H.Maier
The OSIRIS spectrometer
IKP, KFA Juelich Annual Report 1987, **Jul-Spez-422**, 118 (1988)
190. W.Urban, M.Thoms, W.Gast, B.Bochev, D.Balabanski, G.Hebbinghaus, H.Jaeger, A.Kramer-Flecken, R.M.Lieder, T.Rzaca-Urban, H.Schnare, Ch.Senff, O.Zell
Linear polarization of γ -radiation from $^{147,148}\text{Sm}$ nuclei
IKP, KFA Juelich Annual Report 1987, **Jul-Spez-422**, 40 (1988)
191. D.Balabanski, T.Kutsarova, R.M.Lieder, W.Gast, G.Hebbinghaus, A.Kramer-Flecken, G.Sletten, K.H.Maier, K.O.Zell
Study of high-spin states in ^{179}Os
IKP, KFA Juelich Annual Report 1987, **Jul-Spez-422**, 39 (1988)
IKP, KFA Juelich Annual Report 1988, **Jul-Spez-499**, 67 (1989)
192. B.Bochev, R.M.Lieder, T.Kutsarova, W.Gast, G.Hebbinghaus, D.Balabanski, H.Jaeger, N.Toprev
Particle identification telescope for the OSIRIS spectrometer
IKP, KFA Juelich Annual Report 1987, **Jul-Spez-422**, 126 (1988)
IKP, KFA Juelich Annual Report 1988, **Jul-Spez-499**, 172 (1989)
193. D.Balabanski, W.Gast, G.Hebbinghaus, A.Kramer-Flecken, R.M.Lieder, T.Rzaca-Urban, H.Schnare, W.Urban
Band structures and crossings in ^{185}Os
IKP, KFA Juelich Annual Report 1988, **Jul-Spez-499**, 46 (1989)
194. H.Schnare, T.Rzaca-Urban, D.Balabanski, W.Gast, G.Hebbinghaus, A.Kramer-Flecken, R.M.Lieder, W.Urban, K.H.Maier, G.Sletten
Search for superdeformation in ^{180}Os
IKP, KFA Juelich Annual Report 1988, **Jul-Spez-499**, 41 (1989)
HMI Berlin Annual Report 1988, **HMI-Bericht-466**, 211 (1989)
Workshop on Nuclear Structure at High Spins, Bad Honeff, Germany, 1989, p.41
195. B.Bochev, R.M.Lieder, W.Gast, D.Balabanski, A.Georgiev, G.Hebbinghaus, H.Jaeger, T.Kutsarova, N.Toprev
Eight-fold gated sum amplifier for PIT
IKP, KFA Juelich Annual Report 1988, **Jul-Spez-499**, 174 (1989)
196. D.L.Balabanski, G.Hebbinghaus, R.M.Lieder, H.Jaeger, W.Gast, A.Kramer-Flecken, T.Morek, T.Rzaca-Urban, H.Schnare, W.Urban
Proton band crossings and electromagnetic properties in ^{185}Ir
IKP, KFA Juelich Annual Report 1988, **Jul-Spez-499**, 48 (1989)
197. G.Hebbinghaus, K.Strahle, T.Rzaca-Urban, D.Balabanski, W.Gast, R.M.Lieder, H.Schnare, W.Urban, H.Wolters, E.Ott, J.Theuerkauf, K.O.Zell, J.Eberth, P.von Brentano, D.Alber, K.H.Maier, W.Schmitz, E.M.Beck, H.Hubel, T.Bengtsson, I.Ragnarsson, S.Aberg
Superdeformed band in ^{146}Gd . First observation of band crossing
IKP, KFA Juelich Annual Report 1988, **Jul-Spez-499**, 28 (1989)
IKP, KFA Juelich Annual Report 1989, **Jul-Spez-562**, 55 (1990)
198. D.L.Balabanski, M.A.Bentley, P.Chowdhury, P.Fallon, B.Fabricius, W.Gast, G.Hebbinghaus, D.Howe, A.Kramer-Flecken, T.Kutsarova, R.M.Lieder, A.R.Mokhtar, H.Schnare, J.F.Sharpey-Schafer, G.Sletten
Study of band structures and crossings in ^{182}Os

- IKP, KFA Juelich Annual Report 1988, **Jul-Spez-499**, 43 (1989)
- IKP, KFA Juelich Annual Report 1989, **Jul-Spez-562**, 73 (1990)
199. D.L.Balabanski, M.A.Bentley, P.Chowdhury, P.Fallon, B.Fabricius, W.Gast, G.Hebbinghaus, D.Howe, A.Kramer-Flecken, T.Kutsarova, R.M.Lieder, A.R.Mokhtar, H.Schnare, J.F.Sharpey-Schafer, G.Sletten
Study of band structures in ^{181}Os
IKP, KFA Juelich Annual Report 1989, **Jul-Spez-562**, 70 (1990)
200. A.Georgiev, W.Gast, D.Balabanski, B.Bochev, G.Hebbinghaus, H.Jaeger, R.M.Lieder
Parameter reduction for the OSIRIS spectrometer
IKP, KFA Juelich Annual Report 1989, **Jul-Spez-562**, 217 (1990)
201. W.Urban, M.Thoms, D.Balabanski, W.Gast, G.Hebbinghaus, R.M.Lieder
Linear polarization of gamma-transitions in $^{149,150}\text{Sm}$
IKP, KFA Juelich Annual Report 1989, **Jul-Spez-562**, 62 (1990)
202. T.Rzaca-Urban, R.M.Lieder, K.Strahle, D.Balabanski, W.Gast, H.Schnare, M.Binderberger, M.Eschenauer, S.Freund, E.Ott, J.Theuerkauf, H.Wolters, K.O.Zell, J.Eberth, P.von Brentano, K.H.Maier, H.Grawe, C.Bach, R.Schubarth
Search for superdeformation in ^{145}Gd
IKP, KFA Juelich Annual Report 1990, **Jul-2462**, 23 (1991)
203. G.Marti, T.Morek, H.Schnare, Ts.Venkova, D.Balabanski, B.Bochev, W.Gast, A.Georgiev, T.Rzaca-Urban, C.Senff, G.Sletten, K.M.Spohr, K.Strahle, T.Kutsarova, R.M.Lieder, K.H.Maier, K.O.Zell
Band structures in ^{180}Os
IKP, KFA Juelich Annual Report 1990, **Jul-2462**, 31 (1991)
204. T.Rzaca-Urban, K.Strahle, G.Hebbinghaus, D.L.Balabanski, W.Gast, R.M.Lieder, H.Schnare, W.Urban, P.von Brentano, A.Dewald, J.Eberth, E.Ott, J.Theuerkauf, H.Wolters, K.O.Zell, D.Alber, K.H.Maier, E.M.Beck, H.Hubel, W.Schmitz
Excited superdeformed band in ^{146}Gd
IKP, KFA Juelich Annual Report 1991, **Jul-2879**, 90 (1992)
205. K.Strahle, T.Rzaca-Urban, R.M.Lieder, S.Utzlmann, D.L.Balabanski, B.Bochev, W.Gast, A.Georgiev, D.Kutchin, G.Marti, H.Schnare, K.Spohr, K.O.Zell, J.Eberth, P.von Brentano, K.H.Maier, H.Grawe, C.Bach, J.Heese, H.Kluge, M.Schramm, R.Schubarth
Search for superdeformation in $^{145,146}\text{Gd}$
IKP, KFA Juelich Annual Report 1991, **Jul-2879**, 92 (1992)
Int. Conf. on Nuclear Structure at High Angular Momentum, Ottawa, 1992, vol.I, **AECL-10613**, 63 (1992)
206. D.L.Balabanski, D.Hr.Hristov, R.M.Lieder, W.Gast, G.Hebbinghaus, .Kramer-Flecken, T.Rzaca-Urban, H.Schnare, W.Urban,
Systematics of the properties of γ bands in the Os nuclei
IKP, KFA Juelich Annual Report 1991, **Jul-2726**, 85 (1992)
207. K.Strahle, T.Rzaca-Urban, S.Utzlmann, G.Hebbinghaus, R.M.Lieder, D.L.Balabanski, W.Gast, H.Schnare, W.Urban, B.Bochev, A.Georgiev, D.Kutchin, G.Marti, K.Spohr, P.von Brentano, M.Binderberger, A.Dewald, J.Eberth, M.Eschenauer, S.Freund, E.Ott, J.Theuerkauf, H.Wolters, K.O.Zell, D.Alber, C.Bach, H.Grawe, J.Heese, H.Kluge, K.H.Maier, M.Schramm, R.Schubarth, E.M.Beck, H.Hubel, W.Schmitz
Discrete superdeformed bands in $^{145,146}\text{Gd}$
IKP, KFA Juelich Annual Report 1992, **Jul-2726**, 83 (1993)
208. G.Neyens, N.Coulier, S.Ternier, K.Vyvey, R.Coussement, D.Balabanski, J.M.Casandjian, M.Chartier, M.D.Cortina-Gil, M.Lewitowicz, W.Mittig, A.N.Ostrowski, P.Roussel-Chomaz, N.Alamanos, A.Lepine-Szily

- Nuclear spin alignment and quadrupole moment of light projectile fragments studied with the Level Mixing Resonance (LMR) method*
Progress Report 1994/1995, Instituut voor Kern- en Stralingsfysika, Univ. Leuven, Belgium, pp.47-51
209. S.Ternier, G.Neyens, K.Vyvey, J.Odeurs, N.Coulier, S.Michiels, R.Coussement, D.L.Balabanski, R.Kulkarni
Quadrupole frequency measurements with the LEMS method in cubic host materials
Progress Report 1994/1995, Instituut voor Kern- en Stralingsfysika, Univ. Leuven, Belgium, pp.8-14
210. H.Hubel, S.Chmel, N.Nenoff, D.Rossbach, K.Vyvey, G.Neyens, D.L.Balabanski, D.Borremans, N.Colier, R.Coussement, G.Georgiev, S.Theughels, S.C.Panchoni, R.Schwengner, S.Frauendorf
Quadrupole moments of the 11^- isomers in $^{194,196}\text{Pb}$ and deformation of magnetic-rotational bands
Research Report 2000/2001, Rheinische Friedrich-Wilhelms-Universität Bonn, p.63
211. D.Borremans, N.Colier, R.Coussement, W.De Clerq, G.Georgiev, S.Theughels, K.Vyvey, G.Neyens, D.L.Balabanski, F.Doenu, G.Rainovski, R.Schwengner, S.Kasemann
Production test for the 8^+ isomer in ^{84}Kr
Rapport d'activite 2000, Centre de Recherches du Cyclotron, Institut de Physique Nucleaire, Universite Catholique de Louvain, pp.16-18
212. D.Borremans, N.Colier, R.Coussement, W.De Clerq, G.Georgiev, S.Theughels, K.Vyvey, G.Neyens, D.L.Balabanski, N.Benouaret
Production tests for the 11^- and 8^+ isomers in $^{198,200,202}\text{Po}$, in preparation to study of the deformation in quasi-spherical Po and Pb isotopes approaching the neutron mid-shell
Rapport d'activite 2000, Centre de Recherches du Cyclotron, Institut de Physique Nucleaire, Universite Catholique de Louvain, pp.18-20
213. K.Vyvey, G.Neyens, D.Borremans, N.Colier, R.Coussement, W.De Clerq, G.Georgiev, S.Theughels, S.Chmel, H.Hubel, N.Nenoff, S.C.Panchoni, D.Rossbach, D.L.Balabanski, R.Schwengner
Study of the spectroscopic quadrupole moment of the 11^- intruder isomer in ^{196}Pb
Rapport d'activite 2000, Centre de Recherches du Cyclotron, Institut de Physique Nucleaire, Universite Catholique de Louvain, pp.21-23
214. F.D.Kondev, K.Abu Saleem, I.Ahmad, M.P.Carpenter, A.Heinz, R.V.F.Janssens, T.L.Khoo, T.Lauritsen, C.J.Lister, D.Seweryniak, I.Wiedenhover, D.L.Balabanski, P.Chowdhury, D.M.Cullen, M.Danchev, G.D.Dracoulis, H.El-Masri, T.M.Goon, D.J.Hartley, R.A.Kaye, L.L.Riedinger, M.A.Riley, I.Shestakova, G.Sletten, P.M.Walker, C.Wheldon, O.Zeidan
High-seniority intrinsic and collective structures in ^{174}Hf and ^{175}Hf
Annual Report 2000, Argonne National Laboratory, **ANL-01/19**, 58-59 (2001)
215. N.Coulier, D.L.Balabanski, D.Borremans, R.Coussement, J.M.Daugas, F.de Oliveira Santos, G.Georgiev, M.Lewitowicz, I.Matea, O.Naviliat-Cuncic, M.Stanoiu, S.Theughels, K.Vyvey, G.Neyens
Nuclear spin alignment produced in a projectile fragmentation reaction
Research at GANIL 1998/2000: A Compilation, eds. J.Frankland, H.Rothard, M.Bex (2002) pp. 44-45
216. J.M.Daugas, D.Borremans, S.Theughels, D.L.Balabanski, N.Colier, R.Coussement, G.Georgiev, M.Hass, M.Lewitowicz, I.Matea, F.de Oliveira Santos, Yu.Penionzhkevich, W.-D.Schmidt-Ott, M.Stanoiu, K.Vyvey, G.Neyens
Spin-polarization of ^{27}Na and ^{31}Al intermediate energy projectile-like fragments

- Research at GANIL 1998/2000: A Compilation, eds. J.Frankland, H.Rothard, M.Bex (2002) pp. 46-47
217. G.Georgiev, G.Neyens, M.Hass, D.L.Balabanski, C.Bingham, C.Borcea, N.Coulier, R.Coussement, J.M.Daugas, G.de France, G.Goldring, M.Gorska, H.Grawe, R.Grzywacz, M.Lewitowicz, H.Mach, I.Matea, F.de Oliveira Santos, R.D.Page, M.Pfutzner, Yu.E.Penionzhkevich, Z.Podolyak, P.H.Regan, K.Rykaczewski, M.Sawicka, N.A.Smirnova, Yu.Sobolev, M.Stanoi, S.Teughels, K.Vyvey
Measurement of isomeric g-factors from projectile fragmentation
Research at GANIL 1998/2000: A Compilation, eds. J.Frankland, H.Rothard, M.Bex (2002) pp. 65-66
218. D.Borremans, G.Neyens, S.Theughels, L.Achouri, D.L.Balabanski, N.Coulier, R.Coussement, J.M.Daugas, G.de France, F.de Oliveira Santos, A.De Vismes, G.Georgiev, M.Lewitowicz, I.Matea, Yu.E.Penionzhkevich, P.Roussel-Chomaz, H.Savajols, W.-D.Schmidt-Ott, Yu.Sobolev, N.A.Smirnova, M.Stanoi, O.Tarasov, K.Vyvey, L.Weisman
g-factor and spin of $31Al$ measured with β -NMR
Research at GANIL 1998/2000: A Compilation, eds. J.Frankland, H.Rothard, M.Bex (2002) pp. 67-68
219. G.Mukherjee, F.D.Kondev, K.Abu Saleem, I.Ahmad, M.P.Carpenter, A.Heinz, R.V.F.Janssens, T.L.Khoo, T.Lauritsen, C.J.Lister, D.Seweryniak, I.Wiedenhover, P.Chowdhury, R.D'Alarcao, I.Shestakova, H.El-Masri, P.M.Walker, D.M.Cullen, C.Wheldon, D.L.Balabanski, M.Danchev, T.M.Goon, D.J.Hartley, L.L.Riedinger, O.Zeidan, M.A.Riley, R.A.Kaye, G.Sletten, G.D.Dracoulis
K-hindered decay of a 6-qp isomer in ^{176}Hf
Annual Report 2001, Argonne National Laboratory, **ANL-02/15**, 59 (2002)
220. 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
Lifetime measurements in ^{136}Pm
LNL Annual Report (2005) p.18
221. L.Atanasova, D.L.Balabanski, M.Hass, R.Lozeva, G.Neyens, G.Simpson, N.Vermuelen for the g-RISING collaboration
g-factor measurement of the $19/2^+$ isomer in ^{136}Pm
GSI Annual Report (2006) p.109
222. D.Rudolph, R.Hoischen, P.Montuenga, M.Hellstrom, S.Pietri, Zs.Podolyak, P.H.Regan, A.B.Garnsworthy, S.J.Steer, F.Becker, P.Bednarczyk, L.Caceres, P.Doornenbal, J.Gerl, M.Gorska, J.Grebosz, I.Kojouharov, N.Kurz, W.Prokopowicz, H.Schaffner, H.J.Wollersheim, L.-L. Anderson, L. Atanasova, D.L.Balabanski, M.Bentley, A.Blazhev, C.Brandau, J.Brown, C.Fahlander, E.K.Johanson, A.Jungclaus
"Mirror isomers" in the $If_{7/2}$ shell
GSI Scientific Report 2007, **GSI Report 2008-1** (2008) p. 118
223. A. Vitez, D.Balabanski, M.Csatlos, M.Ciemala, J.-M. Daugas, G.Georgiev, J. Gulyas, A. Krasznahorkay, S.Lalkovski, A.Lefebvre-Schuhl, R. Lozeva, A. Maj
Response of a few LaBr3 scintillation detectors to high energy γ -rays
ATOMKI Ann. Report 2008, p.15