

Annex: EUROBALL experiments and publications

A) Scientific results in refereed journals

1999

A01) *Decay-out of the yrast superdeformed band in ^{136}Nd : Towards an experimental extraction of the neutron pairing gap at large deformation*

S. Perries, A. Astier, L. Ducroux, M. Meyer, N. Redon, C. M. Petrache, D. Bazzacco, G. Falconi, S. Lunardi, M. Lunardon, C. Rossi Alvarez, C. A. Ur, R. Venturelli, G. Viesti, I. Deloncle, M. G. Porquet, G. de Angelis, M. de Poli, D. Foltescu, A. Gadea, D. R. Napoli, Zs. Podolyak, A. Bracco, S. Frattini, S. Leoni, B. Cederwall, A. Johnson, and R. A. Wyss
[Physical Review C60 \(1999\) 064313](#)

A02) *Triaxial superdeformed bands in ^{164}Lu and enhanced $E1$ decay-out strength*

S. Tormanen, S.W. Ødegård, G.B. Hagemann, A. Harsmann, M. Bergstrom, R.A. Bark, B. Herskind, G. Sletten, P.O. Tjom, A. Görgen, H. Hubel, B. Aengenvoort, U.J. van Severen, C. Fahlander, D. Napoli, S.M. Lenzi, C. Petrache, C. Ur, H.J. Jensen, H. Ryde, R. Bengtsson, A. Bracco, S. Frattini, R. Chapman, D.M. Cullen, S.L. King
[Physics Letters B454 \(1999\) 8](#)

A03) *Measurements of g -factors of excited states in Ba and Ce nuclei using gamma-rays from secondary fission fragments*

A.G. Smith, G.S. Simpson, J. Billowes, J.L. Durell, P.J. Dagnall, S.J. Freeman, M. Leddy, A.A. Roach, J.F. Smith, A. Jungclaus, K.P. Lieb, C. Teich, B.J.P. Gall, F. Hoellinger, N. Schulz, I. Ahmad, J. Greene, A. Algora
[Physics Letters B453 \(1999\) 206](#)

A04) *Correlated spins of complementary fragment pairs in the spontaneous fission of ^{252}Cf*

A. G. Smith, G. S. Simpson, J. Billowes, P. J. Dagnall, J. L. Durell, S. J. Freeman, M. Leddy, W. R. Phillips, A. A. Roach, J. F. Smith, A. Jungclaus, K. P. Lieb, C. Theich, B. J. P. Gall, F. Hoellinger, N. Schulz, I. Ahmad, J. P. Greene, A. Algora
[Physical Review C60 \(1999\) 064611](#)

A05) *Unresolved gamma-rays in ^{114}Te : mass dependence of rotational damping*

S. Frattini, A. Bracco, S. Leoni, F. Camera, B. Million, N. Blasi, G. Lo Bianco, M. Pignanelli, E. Vigezzi, B. Herskind, T. Dossing, M. Bergstrom, P. Varmette, S. Tormanen, A. Maj, M. Kmiecik, D. R. Napoli, and M. Matsuo
[Physical Review Letters 83 \(1999\) 5234](#)

A06) *Structure of Neutron Rich Palladium Isotopes Produced in Heavy Ion Induced Fission*

M. Houry, R. Lucas, M.-G. Porquet, Ch. Theisen, M. Girod, M. Aiche, M.M. Aleonard, A. Astier, G. Barreau, F. Becker, J.F. Chemin, I. Deloncle, T.P. Doan, J.L. Durell, K. Hauschild, W. Korten, Y. Le Coz, M.J. Leddy, S. Perries, N. Redon, A.A. Roach, J.N. Scheurer, A.G. Smith, B.J. Varley
[The European Physical Journal A 6 \(1999\) 43](#)

A07) *Excited Superdeformed Band in ^{143}Eu*

A. Axelsson, J. Nyberg, A. Atac, M.H. Bergstrom, B. Herskind, G. de Angelis, T. Back, D. Bazzacco, A. Bracco, F. Camera, B. Cederwall, C. Fahlander, J.H. Huijnen, S. Lunardi, B. Million, D.R. Napoli, J. Persson, M. Piiparinen, C. Rossi Alvarez, G. Sletten, P.G. Varmette, M. Weiszflog
[The European Physical Journal A6 \(1999\) 175](#)

A08) *Triaxial Superdeformation in ^{163}Lu*

J. Domscheit, S. Tormanen, B. Aengenvoort, H. Hubel, R.A. Bark, M. Bergstrom, A. Bracco, R. Chapman, D.M. Cullen, C. Fahlander, S. Frattini, A. Gørgen, G.B. Hagemann, A. Harsmann, B. Herskind, H.J. Jensen, S.L. King, S. Lenzi, D. Napoli, S.W. Ødegård, C.M. Petrache, H. Ryde, U.J. van Severen, G. Sletten, P.O. Tjom and C. Ur
[Nuclear Physics A660 \(1999\) 381](#)

2000

A09) *First evidence for smooth band termination in valence space in the mass 130 region: Spectroscopy of ^{127}La*

C. M. Parry, R. Wadsworth, A. N. Wilson, A. J. Boston, P. J. Nolan, E.S. Paul, J. A. Sampson, A. T. Semple, C. Foin, J. Genevey, A. Gizon, J. Gizon, I. Ragnarsson, and B. G. Dong
[Physical Review C61 \(2000\) 021303 \(R\)](#)

A10) *New States in $^{44,46}\text{Ar}$ Isotopes from Deep-Inelastic Heavy Ion Reactions Studies*

B. Fornal, R. Broda, W. Krolas, T. Pawlat, J. Wrzesinski, D. Bazzacco, S. Lunardi, C. Rossi Alvarez, G. Viesti, G. de Angelis, M. Cinausero, D. Napoli, J. Gerl, E. Caurier, F. Nowacki
[The European Physical Journal A7 \(2000\) 147](#)

A11) *The rotational gamma-continuum in the mass region $A \sim 110$*

A. Bracco, S. Frattini, S. Leoni, F. Camera, B. Million, N. Blasi, G. Falconi, G. Lo Bianco, M. Pignanelli, E. Vigezzi, B. Herskind, M. Bergstrom, P. Varmette, S. Tormanen, A. Maj, M. Kmiecik, D. R. Napoli, M. Matsuo
[Nuclear Physics A673 \(2000\) 64](#)

A12) *Search for hyperdeformed structures populated in the $^{37}\text{Cl}+^{120}\text{Sn}$ reaction*

V. Rizzi, G. Viesti, D. Bazzacco, A. Algora-Pineda, D. Appelbe, G. de Angelis, N. Belcari, M. Cinausero, M. De Poli, T. E. Drake, A. Gadea, A. Galindo Uribarri, N. Gelli, D. Fabris, E. Farnea, E. Fioretto, W. Krolas, T. Kroell, F. Lucarelli, S. Lunardi, M. Lunardon, T. Martinez, R. Menegazzo, B. K. Nayak, G. Nebbia, D. R. Napoli, B. Nyako, C. M. Petrache, Z. Podolyak, G. Prete, C. Rossi Alvarez, A. Samant, P. Spolaore, C. Ur and K. Zuber

[The European Physical Journal A7 \(2000\) 299](#)

A13) *High spin study of ^{128}Ce and systematics of quasiparticle pair alignment*

E. Paul, P. Bednarczyk, A. J. Boston, C. J. Chiara, C. Foin, D. B. Fossan, J. Genevey, A. Gizon, J. Gizon, D. G. Jenkins, N. Kelsall, N. Kintz, T. Koike, D. R. LaFosse, P. J. Nolan, B. M. Nyakó, C. M. Parry, J. A. Sampson, A. T. Semple, K. Starosta, J. Timár, R. Wadsworth, A. N. Wilson, and L. Zolnai

[Nuclear Physics A676 \(2000\) 32](#)

A14) *Very high rotational frequencies and band termination in ^{73}Br*

C. Plettner, H. Schnare, R. Schwengner, L. Kaubler, F. Donau, I. Ragnarsson, A. V. Afanasjev, A. Algora, G. de Angelis, A. Gadea, D. R. Napoli, J. Eberth, T. Steinhardt, O. Thelen, M. Hausmann, A. Muller, A. Jungclaus, K. P. Lieb, D. G. Jenkins, R. Wadsworth, A. N. Wilson, S. Frauendorf

[Physical Review C 62 \(2000\) 014313](#)

A15) *Proton and gamma-decay lifetime measurements in the second minimum of ^{58}Cu*

D. Rudolph, C. Fahlander, A. Algora, C. Andreoiu, R. Cardona, C. Chandler, G. de Angelis, E. Farnea, A. Gadea, J. Garces Narro, J. Nyberg, M. Palacz, Zs. Podolyak, T. Steinhardt, O. Thelen

[Physical Review C63 \(2000\) 021301 \(R\)](#)

A16) *Multiple octupole excitations in ^{148}Gd*

Z. Podolyak, P. G. Bizzeti, A. M. Bizzeti-Sona, S. Lunardi, D. Bazzacco, A. Dewald, A. Algora, G. de Angelis, M. De Poli, E. Farnea, A. Gadea, D. R. Kasemann, T. Klug, Th. Kroell, S. Lenzi, D. R. Napoli, C. M. Petrache, R. Peusquens, C. Rossi Alvarez, T. Martinez, C. A. Ur

[The European Physical Journal A8 \(2000\) 147](#)

A17) *Signature inversion caused by triaxiality and unpaired band crossing in ^{72}Br*

C. Plettner, I. Ragnarsson, H. Schnare, R. Schwengner, L. Kaubler, F. Donau, A. Algora, G. de Angelis, A. Gadea, D. R. Napoli, J. Eberth, T. Steinhardt, O. Thelen, M. Hausmann, A. Mueller, A. Jungclaus, K. P. Lieb, D. G. Jenkins, R. Wadsworth, A. N. Wilson

[Physical Review Letters 85 \(2000\) 2454](#)

A18) *Co-existing coupling schemes at high spin in ^{166}Hf*

D. Ringkjobing Jensen, J. Domscheit, G. B. Hagemann, M. Bergstrom, B. Herskind, B. S. Nielsen, G. Sletten, P.G. Varmette, S. Tormanen, H. Hubel, W. Ma, A. Bracco, F. Camera, F. Demaria, S. Frattini, B. Million, D. Napoli, A. Maj, B.M. Nyako, D. T. Joss, and M. Aiche

[The European Physical Journal A8 \(2000\) 165](#)

A19) *Discrete line γ -ray spectroscopy in the 50-60 \hbar spin domain of $^{161,162}\text{Er}$*

J. Simpson, A.P. Bagshaw, A. Pipidis, M.A. Riley, M.A. Bentley, D.M. Cullen, P.J. Dagnall, G.B. Hagemann, S.L. King, R.W. Laird, J.C. Lisle, S. Sheperd, A.G. Smith, S. Tormanen, A. Afanasjev and I. Ragnarsson

[Physical Review C62 \(2000\) 024321](#)

A20) *Smooth band termination in odd mass La nuclei: $^{127,129,131}\text{La}$*

R. Wadsworth, E.S. Paul, A. Astier, D. Bazzacco, A.J. Boston, N. Buform, C. Chiara, D.B. Fossan, C. Fox, J. Gizon, D.G. Jenkins, N.S. Kelsall, T. Koike, D.R. LaFosse, S. Lunardi, P.J. Nolan, B.M. Nyako, C.M. Petrache, H. Scraggs, K. Starosta, J. Timar, A. Walker, A.N. Wilson, L. Zolnai, B.G. Dong, and I. Ragnarsson

[Physical Review C62 \(2000\) 034315](#)

A21) *Magnetic properties of the $\nu j_{15/2}$ intruder orbital in the superdeformed minimum of ^{197}Pb*

N. Buform, A. Astier, R. Duffait, M. Meyer, S. Perriès, A. Prévost, N. Redon, O. Stèzowski, A. Goergen, H. Hübel, E. Mergel, S. Neumann, D. Rossbach, N. Nenoff, G. Schoenwasser, A. Bauchet, I. Deloncle, M.G. Porquet, A.N. Wilson, R. Lucas, F.A. Beck, D. Curien, G. Duchêne, B.J.P. Gall, N. Kintz, J.P. Vivien, D.M. Cullen

[The European Physical Journal A9 \(2000\) 29](#)

2001

A22) *Excited States in ^{103}Sn : Neutron single-particle energies with respect to ^{100}Sn*

C. Fahlander, J. Kownacki, L.O. Norlin, J. Nyberg, M. Palacz, D. Rudolph, D. Sohler, A. Algora, C. Andreoiu, G. de Angelis, A. Atac, D. Bazzacco, L. Berglund, J. Blomqvist, T. Back, J. Cederkall, B. Cederwall, Zs. Dombradi, B. Fant, E. Farnea, A. Gadea, M. Gorska, H. Grawe, N. Hashimoto-Saitoh, A. Johnson, K. Jonsson, A. Kerek, W. Klamra, S. Lenzi, A. Likar, M. Lipoglavsek, M. Moszynski, D. Napoli, C. Rossi Alvarez, H. Roth, T. Saitoh, D. Severyniak, O. Skeppstedt, M. Weissflog, M. Wolinska

[Physical Review C63 \(2001\) 021307 \(R\)](#)

A23) *Measurement of the linear polarisation of interband transitions in superdeformed 190Hg: model-independent evidence for octupole vibrational structures*

A. Korichi, A.N. Wilson, F. Hannachi, A. Lopez-Martens, M. Rejmund, C. Schuck, C. Vieu, S. Chmel, A. Görgen, H. Hubel, D. Rossbach, G. Schönwasser, M. Bergstrom, B.M. Nyako, J. Timar, D. Bazzacco, S. Lunardi, C. Rossi Alvarez, P. Bednarczyk, N. Kintz, S. Nagulesaran, D.M. Cullen, J.F. Sharpey-Schafer, M.P. Carpenter, R.V.F. Janssens, T.L. Khoo, T. Lauritzen, and R. Wadsworth

[Physical Review Letters 86 \(2001\) 2746](#)

A24) *Observation of a double giant dipole resonance in fusion-evaporation reactions*

G. Viesti, V. Rizzi, M. Cinausero, N. Gelli, A. Gadea, D. Bazzacco, A. Algora-Pineda, D. Appelbe, G. de Angelis, N. Belcari, M. De Poli, T. E. Drake, D. Fabris, E. Farnea, E. Fioretto, A. Galindo-Uribarri, W. Krolas, T. Kroll, F. Lucarelli, S. Lunardi, M. Lunardon, T. Martinez, R. Menegazzo, B. K. Nayak, G. Nebbia, D. R. Napoli, B. Nyako, C. Petrache, Z. Podolyak, G. Prete, C. Rossi Alvarez, P. Spolaore, C. Ur, and K. Zuber

[Physical Review C63 \(2001\) 034611](#)

A25) *Quantum tunneling of the excited rotational bands in the superdeformed nucleus 143Eu*

S. Leoni, A. Bracco, F. Camera, B. Million, A. Algora, A. Axelsson, G. Benzoni, M. Bergström, N. Blasi, M. Castoldi, S. Frattini, A. Gadea, B. Herskind, M. Kmiecik, G. Lo Bianco, A. Maj, J. Nyberg, M. Pignanelli, J. Styczen, E. Vigezzi, M. Zieblinski and A. Zucchiatti

[Physics Letters B498 \(2001\) 137](#)

A26) *High spin states in neutron-rich Dy isotopes populated in deep-inelastic reactions*

X. Liang, R. Chapman, K. M. Spohr, M. B. Smith, P. Bednarczyk, S. Naguleswaran, F. Haas, G. de Angelis, S. M. Campbell, P. J. Dagnall, M. Davison, G. Duchene, Th. Kroell, S. Lunardi and D.J. Middleton

[The European Physical Journal A10 \(2001\) 41](#)

A27) *New excited superdeformed bands in heavy Pb nuclei: Clue for an octupole softness near the $N = 118$ gap at large deformation*

A. Prévost, N. Buform, A. Astier, R. Duffait, M. Meyer, S. Perriès, N. Redon, O. Stézowski, A. Bauchet, I. Deloncle, M.G. Porquet, A. Görgen, H. Hübel, E. Mergel, S. Neumann, D. Roßbach, N. Nenoff, G. Schönwaßer, A.N. Wilson, R. Lucas, F.A. Beck, D. Curien, G. Duchêne, B.J.P. Gall, N. Kintz, J.P. Vivien, D.M. Cullen

[The European Physical Journal A10 \(2001\) 13](#)

A28) *First identification of rotational bands in ^{103}Tc : Evolution of intrinsic proton states of the $97\text{-}105\text{Tc}$ isotopes*

A. Bauchet, I. Deloncle, M.-G. Porquet, A. Astier, N. Buform, M. Meyer, S. Perriès, N. Redon, B.J.P. Gall, F. Hoellinger, N. Schulz, G. Duchêne, S. Courtin, Ts. Venkova, P.A. Butler, N. Amzal, R.D. Herzberg, A. Chewter, R. Cunningham, M. Houry, R. Lucas, W. Urban, A. Nowak, E. Piasecki, J. Duprat, C. Petrache, T. Kröll

[The European Physical Journal A10 \(2001\) 145](#)

A29) *Evidence for the wobbling mode in nuclei*

S.W. Ødegård, G.B. Hagemann, D. R. Jensen, M. Bergstrom, B. Herskind, G. Sletten, S. Tormanen, J. Wilson, P.O. Tjom, I. Hamamoto, K. Spohr, H. Hübel, A. Gørgen, G. Schönwasser, A. Bracco, S. Leoni, A. Maj, C. M. Petrache, P. Bednarczyk and D. Curien

[Physical Review Letters 86 \(2001\) 5866](#)

A30) *The lifetime of the proton-decaying 8916 keV state in ^{58}Cu*

D. Rudolph, A. Gadea, G. de Angelis, C. Fahlander, A. Algora, C. Andreoiu, R. Cardona, C. Chandler, E. Farnea, J. Garces Narro, J. Nyberg, M. Palacz, Zs. Podolyak, T. Steinhardt, O. Thelen

[Nuclear Physics A 694 \(2001\) 132](#)

A31) *Coexistence of superdeformed shapes in ^{154}Er*

K. Lagergren, B. Cederwall, T. Bäck, R. Wyss, E. Ideguchi, A. Johnson, A. Ataç, A. Axelsson, F. Azaiez, A. Bracco, J. Cederkäll, Zs. Dombrádi, C. Fahlander, A. Gadea, B. Million, C. M. Petrache, C. Rossi-Alvarez, J. A. Sampson, D. Sohler, and M. Weiszflog

[Physical Review Letters 87 \(2001\) 022502](#)

A32) *Coulomb energy difference in $T=1$ mirror rotational bands in ^{50}Fe and ^{50}Cr*

S.M. Lenzi, N. Marginean, D.R. Napoli, C.A. Ur, A.P. Zuker, G. de Angelis, A. Algora, M. Axiotis, D. Bazzacco, N. Belcari, M.A. Bentley, P.G. Bizzeti, A. Bizzeti-Sona, F. Brandolini, P. von Brentano, D. Bucurescu, J.A. Cameron, C. Chandler, M. De Poli, A. Dewald, J. Eberth, E. Farnea, A.Gadea, J. Garces-Narro, W. Gelletly, H. Grawe, R. Isocrate, D.T. Joss, C.A. Kalfas, T. Klug, T. Lampman, S. Lunardi, T. Martinez, G. Martinez-Pinedo, R. Menegazzo, J. Nyberg, Zs. Podolyak, A. Poves, R.V. Ribas, C. Rossi Alvarez, B. Rubio, J. Sanchez-Solano, P. Spolaore, T. Steinhardt, O. Thelen, D. Tonev, A. Vitturi, W. von Oertzen, M. Weiszflog

[Physical Review Letters 87 \(2001\) 122501](#)

A33) *Evidence for Octupole Vibration in Superdeformed ^{196}Pb*

D. Rossbach, A. Gorgen, H. Hubel, E. Mergel, G. Schonwasser, A.N. Wilson, F. Azaiez, A. Astier, D. Bazzacco, M. Bergstrom, C. Bourgeois, N. Buforn, F. Hannachi, K. Hauschild, A. Korichi, W. Korten, T. Kroll, A. Lopez-Martens, R. Lucas, H.J. Maier, N. Redon, P. Reiter, C. Rossi-Alvarez, O. Stezowski, P. Thirolf
[Physics Letters 513B \(2001\) 9](#)

A34) *Investigation of the Magnetic Rotation in ^{196}Pb*

G. Kemper, A. Dewald, I. Wiedenhover, R. Peusquens, S. Kasemann, K.O. Zell, P. von Brentano, H. Hubel, S. Chmel, A. Gorgen, D. Bazzacco, R. Venturelli, S. Lunardi, D.R. Napoli, F. Hannachi, A. Lopez-Martens, R. Krucken, J.R. Cooper, R.M. Clark, M.A. Deleplanque, I.Y. Lee, A.O. Machiavelli, F.S. Stephens
[The European Physical Journal A11 \(2001\) 121](#)

A35) *Exploring the Emission Barriers in Hot Nuclei*

G. Viesti, V. Rizzi, D. Fabris, M. Lunardon, G. Nebbia, M. Cinausero, E. Fioretto, G. Prete, A. Brondi, G. La Rana, R. Moro, E. Vardaci, M. Aiche, M.M.Aleonard, G. Barreau, D. Boivin, J.N. Scheurer, J.F. Chemin, K. Hagel, J.B. Natowitz, R. Wada, S. Courtin, F. Haas, N. Rowley, B.M. Nyako, J. Gal, J. Molnar
[Physics Letters B521 \(2001\) 165](#)

A36) *Coulomb Energy Differences between Isobaric Analogue States in ^{70}Br and ^{70}Se Identification of Excited States of the $T_z=0$ Nucleus ^{70}Br*

G. de Angelis, T. Martinez, A. Gadea, N. Marginean, E. Farnea, E. Maglione, S. Lenzi, W. Gelletly, C.A. Ur, D.R. Napoli, Th. Kroell, S. Lunardi, B. Rubio, M. Axiotis, D. Bazzacco, A.M. Bizzeti-Sona, P.G. Bizzeti, P. Bednarczyk, A. Bracco, F. Brandolini, F. Camera, D. Curien, M. De Poli, O. Dorvaux, J. Eberth, H. Grawe, R. Menegazzo, G. Nardelli, J. Nyberg, P. Pavan, B. Quintana, C. Rossi Alvarez, P. Spolaore, T. Steinhardt, I. Stefanescu, O. Thelen, R. Venturelli
[The European Physical Journal A12 \(2001\) 51](#)

A37) *High-spin states in ^{44}Ca*

M. Lach, P. Bednarczyk, A. Bracco, J. Grebosz, M. Kadluczka, N. Kintz, A. Maj, J.C. Merdinger, W. Meczynski, J.L. Pedroza, N. Schulz, M.B. Smith, K.M. Spohr, J. Styczen, J.P. Vivien, M. Zieblinski
[The European Physical Journal A12 \(2001\) 381](#)

2002

A38) *Wobbling Phonon Excitations, Coexisting with Normal Deformed Structures in ^{163}Lu*

D.R. Jensen, G.B. Hagemann, I. Hamamoto, S.W. Ødegård, M. Bergstrom, B. Herskind, G. Sletten, S. Tormanen, J.N. Wilson, P.O. Tjom, K. Spohr, H. Hübel, A. Görngen, G. Schönwasser, A. Bracco, S. Leoni, A. Maj, C.M. Petrache, P. Bednarczyk, D. Curien

[Nuclear Physics A703 \(2002\) 3](#)

A39) *Transition rates and nuclear structure changes in mirror nuclei ^{47}Cr and ^{47}V*

D. Tonev, P. Petkov, A. Dewald, T. Klug, P. von Brentano, W. Andrejtscheff, S. M. Lenzi, D. R. Napoli, N. Marginean, F. Brandolini, C. A. Ur, M. Axiotis, P. G. Bizzeti, and A. Bizzeti-Sona

[Physical Review C65 \(2002\) 034314](#)

A40) *Enhanced population of superdeformation in the mass $A = 150$ region*

Th. Byrski, F.A. Beck, P. Bednarczyk, N. Kintz, K. Zuber, J.P. Vivien, S. Courtin, D. Curien, G. Duchene, C. Finck, B. Gall, A. Nourreddine, A. Odahara, O. Stezowski, Ch. Theisen

[Physical Review C 65 \(2002\) 034324](#)

A41) *Coherent Proton-Neutron Contribution to Octupole Correlations in the Neutron-Deficient ^{114}Xe Nucleus*

G. de Angelis, A. Gadea, E. Farnea, R. Isocrate, P. Petkov, N. Marginean, D.R. Napoli, A. Dewald, M. Bellato, A. Bracco, F. Camera, D. Curien, M. De Poli, E. Fioretto, A. Fitzler, S. Kasemann, N. Kintz, T. Klug, S. Lenzi, S. Lunardi, R. Menegazzo, P. Pavan, J.L. Pedroza, V. Pucknell, C. Ring, J. Sampson, R. Wyss

[Physics Letters B 535 \(2002\) 93](#)

A42) *Development of magnetic rotation in light Gd nuclei; study of ^{142}Gd*

R.M. Lieder, T. Rzaca-Urban, H. Brands, W. Gast, H.M. Jäger, L. Mihailescu, Z. Marcinkowska, W. Urban, T. Morek, Ch. Droste, P. Szymanski, S. Chmel, D. Bazzacco, G. Falconi, R. Menegazzo, S. Lunardi, C. Rossi Alvarez, G. de Angelis, E. Farnea, A. Gadea, D.R. Napoli, Z. Podolyak, Ts. Venkova, R. Wyss,

[The European Physical Journal A 13 \(2002\) 297](#)

A43) *Candidate for the 6^+ state in the yrast sequence of ^{36}S*

X. Liang, R. Chapman, F. Haas, K.-M. Spohr, P. Bednarczyk, S. M. Campbell, P. J. Dagnall, M. Davison, G. de Angelis, G. Duchêne, Th. Kröll, S. Lunardi, S. Naguleswaran, and M. B. Smith

[Physical Review C66 \(2002\) 014302](#)

A44) *Count Fluctuation Analysis in the Triaxial Strongly Deformed Potential Well of ^{163}Lu*

S.W. Ødegård, B. Herskind, T. Døssing, G.B. Hagemann, D.R. Jensen, G. Sletten, J.N. Wilson, S. Leoni, P.O. Tjøm, P. Bednarczyk, D. Curien

[The European Physical Journal A 14 \(2002\) 309](#)

A45) *Effect of E1 Decay in the Population of Superdeformed Structures*

G. Benzoni, A. Bracco, F. Camera, S. Leoni, B. Million, A. Maj, A. Algora, A. Axelsson, M. Bergstrom, N. Blasi, M. Castoldi, S. Frattini, A. Gadea, B. Herskind, M. Kmiecik, G. Lo Bianco, J. Nyberg, M. Pignanelli, J. Styczen, O. Wieland, M. Zieblinski, A. Zucchiatti

[Physics Letters B 540 \(2002\) 199](#)

A46) *Neutron Excitations Across the $N=50$ Shell Gap in ^{102}In*

D. Sohler, M. Palacz, Zs. Dombradi, J. Blomqvist, C. Fahlander, L.-O. Norlin, J. Nyberg, T. Back, K. Lagergren, D. Rudolph, A. Algora, C. Andreoiu, G. de Angelis, A. Atac, D. Bazzacco, J. Cederkall, B. Cederwall, B. Fant, E. Farnea, A. Gadea, M. Gorska, H. Grawe, N. Hashimoto-Saitoh, A. Johnson, A. Kerek, W. Klamra, J. Kownacki, S.M. Lenzi, A. Likar, M. Lipoglavsek, M. Moszynski, D.R. Napoli, C. Rossi-Alvarez, H.A. Roth, T. Saitoh, D. Seweryniak, O. Skeppstedt, J. Timar, M. Weiszflog, M. Wolinska

[Nuclear Physics A708 \(2002\) 181](#)

A47) *Lifetimes in the yrast and an octupole-vibrational superdeformed band in ^{196}Pb*

D. Rossbach, A. Gørgen, H. Hubel, E. Mergel, G. Schönwasser, F. Azaiez, C. Bourgeois, F. Hannachi, A. Korichi, A. Lopez-Martens, A. Astier, N. Buorn, N. Redon, O. Stezowski, D. Bazzacco, Th. Kröll, C. Rossi-Alvarez, K. Hauschild, W. Korten, R. Lucas, H.J. Maier, P. Reiter, P.G. Thirolf

[Physical Review C66 \(2002\) 024316](#)

A48) *Detailed Study of Magnetic Rotation in ^{196}Pb*

A.K. Singh, N. Nenoff, D. Rossbach, A. Gørgen, S. Chmel, F. Azaiez, A. Astier, D. Bazzacco, M. Belleguic, S. Bouneau, C. Bourgeois, N. Buorn, B. Cederwall, I. Deloncle, J. Domscheit, F. Hannachi, K. Hauschild, H. Hubel, A. Korichi, W. Korten, Th. Kröll, Y. Le Coz, A. Lopez-Martens, R. Lucas, S. Lunardi, H.J. Maier, E. Mergel, M. Meyer, C.M. Petrache, N. Redon, P. Reiter, C. Rossi-Alvarez, G. Schönwasser, O. Stezowski, P.G. Thirolf, A.N. Wilson

[Nuclear Physics A707 \(2002\) 3](#)

A49) *Evidence for excited states in ^{95}Ag*

K. Lagergren, B. Cederwall, A. Johnson, J. Blomqvist, D. Sohler, G. de Angelis, P. Bednarczyk, T. Back, T. Claesson, O. Dorvaux, E. Farnea, A. Gadea, M. Gorska, L. Milechina, L.O. Norlin, A. Odahara, M. Palacz, I. Stefanescu, O. Thelen, J.P. Vivien
[The European Physical Journal A14 \(2002\) 393](#)

A50) *Lifetimes of Yrast Rotational States of the Fission Fragments ^{100}Zr and ^{104}Mo Measured using a Differential Plunger*

A.G. Smith, R.M. Wall, D. Patel, G.S. Simpson, D.M. Cullen, J.L. Durell, S.J. Freeman, J.C. Lisle, J.F. Smith, B.J. Varley, G. Barreau, M. Petit, Ch. Theisen, E. Bouchez, M. Houry, R. Lucas, B. Cahan, A. Le Coguie, B.J.P. Gall, O. Dorvaux, N. Schulz
[J. Phys. \(London\) G28 \(2002\) 2307](#)

A51) *Evidence for Second-Phonon Nuclear Wobbling*

D. R. Jensen, G. B. Hagemann, I. Hamamoto, S. W. Ødegård, B. Herskind, G. Sletten, J. N. Wilson, K. Spohr, H. Hübel, P. Bringel, A. Neußer, G. Schönwaßer, A. K. Singh, W. C. Ma, H. Amro, A. Bracco, S. Leoni, G. Benzoni, A. Maj, C. M. Petrache, G. Lo Bianco, P. Bednarczyk, and D. Curien
[Physical Review Letters 89 \(2002\) 142503](#)

A52) *Observation of yrast states in neutron-rich ^{41}Cl*

X. Liang, R. Chapman, F. Haas, K.-M. Spohr, P. Bednarczyk, S.M. Campbell, P.J. Dagnall, M. Davison, G. de Angelis, G. Duchêne, Th. Kröll, S. Lunardi, S. Naguleswaran, and M.B. Smith
[Physical Review C66 \(2002\) 037301\(R\)](#)

A53) *High-spin study of odd- A ^{49}In isotopes beyond the neutron mid-shell*

R. Lucas, M.-G. Porquet, Ts. Venkova, I. Deloncle, M. Houry, Ch. Theisen, A. Astier, A. Bauchet, S. Lalkovski, G. Barreau, N. Buform, T.P. Doan, L. Donadille, O. Dorvaux, J. Durell, Th. Ethvignot, B.P.J. Gall, D. Grimwood, W. Korten, Y. Le Coz, M. Meyer, A. Minkova, A. Prévost, N. Redon, A. Roach, N. Schultz, O. Stézowski, A.G. Smith and B.J. Varley
[The European Physical Journal A15 \(2002\) 315](#)

A54) *Candidates for chiral doublet bands in ^{136}Nd*

E. Mergel, C.M. Petrache, G. Lo Bianco, H. Hübel, J. Domscheit, D. Rossbach, G. Schönwasser, N. Nenoff, A. Neußer, A. Görgen, F. Becker, E. Bouchez, M. Houry, A. Hürstel, Y. Le Coz, R. Lucas, Ch. Theisen, W. Korten, A. Bracco, N. Blasi, F. Camera, S. Leoni, F. Hannachi, A. Lopez-Martens, M. Rejmund, D. Gaßmann, P. Reiter, P.G. Thirolf, A. Astier, N. Buform, M. Meyer, N. Redon, O. Stezowski

[European Physical Journal A15 \(2002\) 417](#)

A55) *High-spin structure of the neutron-rich $^{109, 111, 113}\text{Rh}$ isotopes*

Ts. Venkova, M.-G. Porquet, A. Astier, A. Bauchet, I. Deloncle, S. Lalkovski, N. Buform, L. Donadille, O. Dorvaux, B.J.P. Gall, R. Lucas, M. Meyer, M. Minkova, A. Prévost, N. Redon, N. Schulz, O. Stézowski

[European Physical Journal A15 \(2002\) 429](#)

A56) *First triaxial superdeformed band in ^{170}Hf*

A. Neußer, H. Hübel, G.B. Hagemann, S. Bhattacharya, P. Bringel, D. Curien, O. Dorvaux, J. Domscheit, F. Hannachi, D.R. Jensen, A. Lopez-Martens, E. Mergel, N. Nenoff, A.K. Singh

[European Physical Journal A15 \(2002\) 439](#)

A57) *High-spin structure of the neutron-rich odd-odd $^{106, 108}\text{Rh}$ and $^{110, 112}\text{Ag}$ isotopes*

M.-G. Porquet, Ts. Venkova, P. Petkov, A. Bauchet, I. Deloncle, A. Astier, N. Buform, J. Duprat, B.J.P. Gall, C. Gautherin, E. Gueorguieva, F. Hoellinger, T. Kutsarova, R. Lucas, M. Meyer, A. Minkova, N. Redon, N. Schulz, H. Sergolle, A. Wilson

[European Physical Journal A15 \(2002\) 463](#)

A58) *Lifetimes of magnetic-rotational bands in ^{196}Pb*

A.K. Singh, H. Hübel, D. Rossbach, S. Chmel, A. Görgen, E. Mergel, G. Schönwasser, F. Azaiez, C. Bourgeois, F. Hannachi, A. Korichi, A. Lopez-Martens, A. Astier, N. Buform, N. Redon, O. Stezowski, D. Bazzacco, T. Kröll, C. Rossi-Alvarez, K. Hauschild, W. Korten, R. Lucas, H.J. Maier, P. Reiter, P.G. Thirolf, A.N. Wilson

[Physical Review C66 \(2002\) 064314](#)

A59) *Shape coexistence at high spin in the $N=Z + 2$ nucleus ^{70}Se*

G. Rainovski, H. Schnare, R. Schwengner, C. Plettner, L. Kaubler, F. Dönau, I. Ragnarsson, J. Eberth, T. Steinhardt, O. Thelen, M. Hausmann, A. Jungclaus, K.P. Lieb, A. Müller, G. de Angelis, A. Gadea, D.R. Napoli, A. Algora, D.G. Jenkins, R. Wadsworth, A. Wilson, W. Andrejtscheff, V.I. Dimitrov

[J. Phys. \(London\) G28 \(2002\) 2617](#)

2003

A60) *Experimental evidence for signature inversion in ^{132}La from a revisited level scheme*

J. Timár, D. Sohler, B.M. Nyakó, L. Zolnai, R. Wyss, E.S. Paul, A.J. Boston, C. Fox, P.J. Nolan, J.A. Sampson, H.C. Scraggs, A. Walker, J. Gizon, A. Gizon, D. Bazzacco, S. Lunardi, C.M. Petrache, A. Astier, N. Buform, P. Bednarczyk, and N. Kintz,

[The European Physical Journal A16 \(2003\) 1](#)

A61) *Isospin mixing in the $N=Z$ nucleus ^{64}Ge*

E. Farnea, G. de Angelis, A. Gadea, P.G. Bizzeti, A. Dewald, J. Eberth, A. Algora, M. Axiotis, D. Bazzacco, A.M. Bizzeti-Sona, F. Brandolini, G. Colo, W. Gelletly, M.A. Kaci, N. Kintz, T. Klug, Th. Kröll, S.M. Lenzi, S. Lunardi, N. Marginean, T. Martinez, R. Menegazzo, D.R. Napoli, J. Nyberg, P. Pavan, Zs. Podolyak, C.M. Petrache, B. Quintana, B. Rubio, P. Spolaore, Th. Steinhardt, J.L. Tain, O. Thelen, C.A. Ur, R. Venturelli, M. Weiszflog

[Physics Letters B551 \(2003\) 56](#)

A62) *One- and two-phonon wobbling excitations in triaxial ^{165}Lu*

G. Schönwasser, H. Hübel, G.B. Hagemann, P. Bednarczyk, G. Benzoni, G. Lo Bianco, A. Bracco, P. Bringel, R. Chapman, D. Curien, J. Domscheit, B. Herskind, D.R. Jensen, S. Leoni, W.C. Ma, A. Maj, A. Neußer, S.W. Ødegård, C. Petrache, D. Roßbach, H. Ryde, K.H. Spohr, A.K. Singh

[Physics Letters B552 \(2003\) 9](#)

A63) *In-beam gamma-ray spectroscopy of ^{42}Ca*

M. Lach, J. Styczen, W. Meczynski, P. Bednarczyk, A. Bracco, J. Grebosz, A. Maj, J.C. Merdinger, N. Schulz, M.B. Smith, K.M. Spohr, J.P. Vivien, M. Zieblinski

[The European Physical Journal A16 \(2003\) 309](#)

A64) *Electromagnetic $B(E2)$ transition strengths along the yrast negative-parity band of ^{113}I*

P. Petkov, A. Dewald, A. Fitzler, T. Klug, G. de Angelis, E. Farnea, A. Gadea, R. Isocrate, N. Marginean, D. R. Napoli, D. Curien, N. Kintz, S. Lenzi, S. Lunardi, R. Menegazzo, V. Pucknell, and C. Ring

[Physical Review C67 \(2003\) 054306](#)

A65) *Lifetime measurements in ^{148}Gd*

Zs. Podolyák, P.G. Bizzeti, A.M. Bizzeti-Sona, S. Lunardi, D. Bazzacco, A. Dewald, A. Algora, G. de Angelis, E. Farnea, A. Gadea, D.R. Kasemann, T. Klug, Th. Kröll, S. Lenzi, D.R. Napoli, C.M. Petrache, R. Peusquens, C. Rossi Alvarez, T. Martinez, C.A. Ur

[The European Physical Journal A17 \(2003\) 29](#)

A66) *Four-quasiparticle alignments in ^{66}Ge*

E.A. Stefanova, I. Stefanescu, G. de Angelis, D. Curien, J. Eberth, E. Farnea, A. Gadea, G. Gersch, A. Jungclaus, K.P. Lieb, T. Martinez, R. Schwengner, T. Steinhardt, O. Thelen, D. Weisshaar, R. Wyss

[Physical Review C67 \(2003\) 054319](#)

A67) *Candidate chiral twin bands in the odd-odd nucleus ^{132}Cs : Exploring the limits of chirality in the mass $A \sim 130$ region*

G. Rainovski, E. S. Paul, H. J. Chantler, P. J. Nolan, D. G. Jenkins, R. Wadsworth, P. Raddon, A. Simons, D. B. Fossan, T. Koike, K. Starosta, C. Vaman, E. Farnea, A. Gadea, Th. Kröll, R. Isocrate, G. de Angelis, D. Curien, and V. I. Dimitrov

[Physical Review C68 \(2003\) 024318](#)

A68) *Evolution of the $\pi g9/2^- \nu h11/2^-$ configuration in neutron-rich $^{110,112}\text{Rh}$ and $^{114,116}\text{Ag}$ isotopes*

M.-G. Porquet, Ts. Venkova, A. Astier, A. Bauchet, I. Deloncle, N. Buorn, L. Donadille, O. Dorvaux, B.J.P. Gall, S. Lalkovski, R. Lucas, M. Meyer, A. Minkova, A. Prevost, N. Redon, N. Schulz and O. Stezowski

[The European Physical Journal A18 \(2003\) 25](#)

A69) *Two-quasiparticle and collective excitations in transitional $^{108,110}\text{Pd}$ nuclei*

S. Lalkovski, A. Minkova, M.-G. Porquet, A. Bauchet, I. Deloncle, A. Astier, N. Buorn, L. Donadille, O. Dorvaux, B.J.P. Gall, R. Lucas, M. Meyer, A. Prevost, N. Redon, N. Schulz and O. Stezowski

[The European Physical Journal A, in press](#)

A70) *Quantized Wobbling in Nuclei*

G.B. Hagemann and I. Hamamoto

[Nuclear Physics News, Vol. 13 \(2003\) 20](#)

A71) *Coexisting wobbling and quasiparticle excitations in the triaxial potential well of ^{163}Lu*

D.R. Jensen, G.B. Hagemann, I. Hamamoto, B. Herskind, G. Sletten, J.N. Wilson, S.W. Oedegaard, K. Spohr, H. Hubel, P. Bringel, A. Neusser, G. Schönwasser, A.K. Singh, W.C. Ma, H. Amro, A. Bracco, S. Leoni, G. Benzoni, A. Maj, C.M. Petrache, G. Lo Bianco, P. Bednarczyk and D. Curien

[The European Physical Journal A, in press](#)

B) Technical developments**B01)** *Development of a Composite Ge Detector for EUROBALL,*

J. Eberth, P. von Brentano, W. Teichert, H.G. Thomas, A. von der Werth, R.M. Lieder, H. Jäger, H. Kämmerling, D. Kutchin, K.H. Maier, M. Berst, D. Gutknecht and R. Henck
Prog. Part. Nucl. Phys. **28** (1992) 495.

B02) *Encapsulated Ge Detectors: Development and first Tests*

J. Eberth, H.G. Thomas, P. von Brentano, R.M. Lieder, H.M. Jäger, H. Kämmerling, M. Berst, D. Gutknecht and R. Henck
Nucl. Instr. and Meth. in Phys. Res. **A369** (1996) 135

B03) *The Response of the EUROBALL CLUSTER Detector to γ -Radiation up to 10 MeV,*

M. Wilhelm, J. Eberth, G. Pascovici, E. Radermacher, H.G. Thomas, P. von Brentano, H. Prade and R.M. Lieder
Nucl. Instr. and Meth. in Phys. Res. **A381** (1996) 462

B04) *The EUROBALL Neutron Wall - Design and Performance Tests of Neutron Detectors*

O. Skeppstedt, H.A. Roth, L. Lindstrom, R. Wadsworth, I. Hibbert, N. Kelsall, D. Jenkins, H. Grawe, M. Gorska, M. Moszynski, Z. Sujkowski, D. Wolski, M. Kapusta, M. Hellstrom, S. Kalogeropoulos, D. Oner, A. Johnson, J. Cederkall, W. Klamra, J. Nyberg, M. Weiszflog, J. Kay, R. Griffiths, J. Garces Narro, C. Pearson, J. Eberth
Nucl. Instr. and Meth. in Phys. Res. **A421** (1999) 531

B05) *EuroSiB - a 4π Silicon Ball for Charged-Particle Detection in EUROBALL*

G. Pausch, H. Prade, M. Sobiella, H. Schnare, R. Schwengner, L. Kaubler, C. Borcan, H.-G. Ortlepp, U. Oehmichen, H. Grawe, R. Schubart, J. Gerl, J. Cederkall, A. Johnson, A. Kerek, W. Klamra, M. Moszynski, D. Wolski, M. Kapusta, A. Axelsson, M. Weiszflog, T. Härtlein, D. Pansegrau, G. de Angelis, S. Ashrafi, A. Likar, M. Lipoglavsek
Nucl. Instr. and Meth. in Phys. Res. **A443** (2000) 304

B06) *Measurements of 15 MeV γ -rays with the Ge cluster detectors of EUROBALL.*

B. Million, A. Bracco, F. Camera, S. Brambilla, A. Gadea, D. Giugni, B. Herskind, M. Kmiecik, R. Isocrate, S. Leoni, A. Maj, F. Prelz, O. Wieland
Nucl. Instrum. and Meth. in Phys. Res. **A452** (2000) 422

B07) *The VXI electronics of the DIAMANT particle detector array*

J. Gál, G. Hegyesi, J. Molnár, B.M. Nyakó, G. Kalinka, J.N. Scheurer, M.M. Aléonard, J.F. Chemin, J.L. Pedroza, K. Juhász, V.R.F. Pucknell
Nucl. Instr. and Meth. in Phys. Res. A, submitted

C) PhD Theses

Kai Strähle (University of Bonn, Germany, 1993)

“Superdeformation in $^{144,145,146}\text{Gd}$ und Entwicklung eines gekapselten Ge-Detektors”

Stefan Utzelmann (University of Bonn, Germany, 1996)

“Superdeformation in $^{144,145}\text{Gd}$ und Kerngestaltsänderung in ^{180}Os ”

Joakim Cederkäll (Royal Institute of Technology, Stockholm, Sweden, 1998)

“Nuclear structure close to ^{100}Sn ”

Matej Lipoglavsek (University of Lund, Sweden, 1998)

“Rigidity of the doubly-magic ^{100}Sn core”

Nami Saitoh (University of Tsukuba, Japan, June 1999)

“Nuclear Structures in $^{182,183}\text{Re}$ and K -forbiddenness in $A \sim 180$ Nuclei”

Takehiko R. Saitoh (University of Copenhagen, Denmark, June 1999)

“Structures in doubly odd ^{180}Ta , proton-odd ^{181}Ta and neutron-odd ^{183}W ”

1998

C.B. Aengenvoort (University of Bonn, Germany)

“Zerfall der superdeformierten Banden in den Kernen ^{135}Nd und ^{163}Lu ”

Severin Thummerer (Free University of Berlin, Germany)

“Gamma-spectroscopy of deformed nuclei with binary reactions”

S. Frattini (University of Milano, Italy)

“Study of the nuclear rotational motion at high spin in the mass region $A=160$ and $A=110$ ”

1999

Andrew Bagshaw (University of Manchester, United Kingdom)

“High-Spin Spectroscopy of $^{161,162}\text{Er}$ ”

Adrian Roach (University of Manchester, United Kingdom)

“Gamma-ray spectroscopy of neutron-rich Cadmium nuclei”

Stephan Perries (University of Lyon-1, France)

“Propriétés de la matière nucléaire superdéformée dans les régions de masse $A \sim 190$ et $A \sim 130$ ”

2000

Anders Axelsson (University of Uppsala, Sweden)

“Studies of collective excitations in Rare Earth Nuclei”

Andreas Gorgen (University of Bonn, Germany)

“Magnetische Rotation in Pb Isotopen”

Michael Houry (University of Paris XI, Orsay, France)

“Spectroscopie γ des noyaux riches en neutrons produits par fission induite $^{12}\text{C}+^{238}\text{U}$. Structure nucleaire des isotopes de palladium”

Guido Kemper (University of Koln, Germany)

“Dynamische Formanderungen in ^{136}Nd und magnetische Rotation in ^{196}Pb ”

Nathalie Kintz (University Louis Pasteur, Strasbourg, France)

“Etude des bifurcations $\Delta I = 4$ dans les noyaux superdeformes de la region de masse $A \sim 150$ ”

Rudiger Peusquens (University of Koln, Germany)

“Software fur Gammaspektroskopiemessungen und Superdeformation im Kern ^{135}Nd ”

Gary Simpson (University of Manchester, United Kingdom)

“Gamma-ray angular correlations in spontaneous fission”

2001

Armand Bauchet (University of Paris XI Orsay, France)

“Spectroscopie gamma de fragments de fission aupres d'EUROBALL : mise en evidence du role des orbitales de proton dans des noyaux riches en neutrons de la region de masse $A \sim 100$ ”

Nadege Buforn (University of Lyon-1, France)

“Force de Coriolis et deformation nucleaire : resultats dans les isotopes de cadmium et de plomb avec le multidetecteur- γ EUROBALL”

Jochen Domscheit (University of Bonn, Germany)

“Untersuchung verschiedener Kernformen bei hohem Drehimpuls”

Enrico Farnea (University of Surrey, United Kingdom)
“Spectroscopic studies of isospin mixing in ^{64}Ge ”

Christina Plettner (Technical University of Dresden, Germany)
“Nuclear structure phenomena in the $^{72,73}\text{Br}$ nuclei”

Ahmed N. Qadir (University of Manchester, United Kingdom)
“Spectroscopic study of neutron rich nuclei north-west of ^{208}Pb ”

Detlef Roßbach (University of Bonn, Germany)
“Struktur angeregter superdeformierter Zustände in Pb Isotopen”

Ronan Wall (University of Manchester, United Kingdom)
“A differential Doppler-shift technique for the measurement of excited states in fission fragments”

2002

Corina Andreoiu (University of Lund, Sweden)
“The Nucleus ^{59}Cu : Complex Structure, Shape Evolution, Exotic Decay Modes”

Edgar Galindo (University of Göttingen, Germany)
“Lifetime measurements of high spin states in ^{95}Ru and ^{101}Ag ”

Xiaoying Liang (University of Paisley, United Kingdom)
“Spectroscopy of neutron rich nuclei produced in deep inelastic processes”

Stein Westad Ødegaard (University of Oslo, Norway)
“Triaxiality and Wobbling in Nuclei”

Jerzy Grebosz (The Niewodniczanski Institute of Nuclear Physics, Krakow, Poland)
“Distinction of fusion reaction products with the Recoil Filter Detector; experiment control and data reduction with the use of object oriented programming”

2003 and in preparation

Tom Armstrong (University of Manchester, United Kingdom)
“Two QP Bands in Neutron-Rich Nuclei”

Mihalis Axiotis (National Technological University of Athens, Greece)
“High spin spectroscopy of ^{52}Mn and ^{52}Fe ”

Giovanna Benzoni (University of Milano, Italy)
“Study of nuclear shapes in thermally excited highly rotating nuclei”

P.T.W. Choy (University of Liverpool, United Kingdom)

Karsten Jessen (University of Köln, Germany, 2003)
“Spektroskopie der Z=N Kerne ^{48}Cr und ^{46}V ”

Karin Lagergren (Royal Institute of Technology, Stockholm, Sweden 2003)

Stefan Lalkovski (University of Sofia, 2003)
“Study of high-spin states of neutron-rich $^{108,110}\text{Pd}$ isotopes from induced fission”

Trinitario Martinez (University of Valencia, Spain)
“Structure of the nuclei close to the N=Z line $^{70,71}\text{Br}$ ”

Edgar Mergel (University of Bonn, Germany)
“Untersuchung der Formkoexistenz in Atomkernen mit Hilfe von Gamma- und Konversionselektronenspektroskopie”

Aurelien Prevost (University of Lyon, France, 2003)
“A la recherche des grandes deformations nucleaires avec les multidetecteurs EUROBALL et EXOGAM”

Dennis Ringkjoebing Jensen (University of Copenhagen, Denmark, Feb.2003)
“Wobbling Phonon Excitations in Nuclei - Evidence for Triaxiality”

D) Invited Talks at International Conferences and Workshops

1998

D01) *The Euroball array*

C. Rossi Alvarez

SNEC98 Conference, Padova, Italy, April 1998

Proceedings published in **Nuovo Cimento 111A (1998) 601**

D02) *Nuclear Structure Experiments with Euroball*

D.R. Napoli

33rd Holzgau Spring Meeting FZ Rossendorf Holzgau (Germany), April 1998

D03) *Nuclear shapes and the EUROBALL facility*

M. Pignanelli

International School of Physics "Enrico Fermi", Course CXXXVIII,

Proceedings published in IOS Press, Amsterdam 1998

D04) *The status of the Euroball array at LNL*

C. Rossi Alvarez

6th Int. Spring Seminar in Nuclear Physics, S. Agata sui due Golfi (Italy), May 1998,

Proceedings published in World Scientific, Singapore, 1999, p. 477.

D05) *Decay Out of the Highly-Deformed Bands in the $A = 130$ Mass Region and Experimental Δ_n for Nd Nuclei*

C.M. Petrache

Nuclear Structure 98, Gatlinburg (USA), 1998

Proceedings published in **AIP Conf.Proc. 481 (1999) p368**

D06) *Double and Triple Octupole Excitations in the $A = 150$ Region*

P.G. Bizzeti

Nuclear Structure 98, Gatlinburg (USA), 1998

Proceedings published in **AIP Conf.Proc. 481 (1999) p.493**

D07) *The Limits of Gamma-Ray Spectroscopy with Multi-Detector Arrays*

J. Simpson

Int. Nuclear Physics Conf. INPC/98, Paris (France), August 1998

Proceedings published in **Nucl.Phys. A654, 178c (1999)**

D08) *Recent results from large gamma-detector arrays (GASP and EUROBALL) at Legnaro*

S. Lunardi

XXXIII Zakopane School of Physics "Trends in Nuclear Physics", Zakopane, Poland, September 1998, Proceedings published in **Acta Phys. Pol. xx (1999)**

1999

D09) *New Results from Euroball.*

S. Lunardi

Proceedings of the Conference Experimental Nuclear Physics in Europe, Sevilla, Spain, June 1999, Proceedings published in **AIP Conf.Proc. 495 (1999), p. 165.**

D10) *Search for the GDR Built on Superdeformed Nuclei*

A.Bracco

Int. Conf. on Achievements and Perspectives in Nuclear Structure, Crete (Greece), July 1999, Proceedings published in **Physica Scripta, T88 (2000) p. 182**

D11) *Search for Exotic Shapes*

G.B. Hagemann

Int. Conf. on Achievements and Perspectives in Nuclear Structure, Crete (Greece), July 1999, Proceedings published in **Physica Scripta, T88 (2000) p. 77**

D12) *Prompt particle decays of deformed second minima*

D. Rudolph

Int. Conf. on Achievements and Perspectives in Nuclear Structure, Crete (Greece), July 1999, Proceedings published in **Physica Scripta T88 (2000) p. 21**

D13) *EUROBALL: Present status and results*

J. Simpson

Annual Fall Meeting of the Division of the Nuclear Physics, APS, Pacific Groves, October 1999, USA

D14) *Prompt particle decays from deformed high-spin states*

D. Rudolph

First Int. Symp. on Proton Emitting Nuclei, Oak Ridge, USA, October 1999, Proceedings published in **AIP Conf. Proc. 518 (2000) 285**

D15) *Study of fission fragments from the $^{12}\text{C}+^{238}\text{U}$ reaction : prompt and delayed spectroscopy*

R. Lucas

Second International Conference on Fission and Neutron-Rich Nuclei,
St. Andrews (Scotland), June 28-July 2, 1999.

2000

D16) *Status and new results with Euroball IV*

G. Duchene

Int. Symp. Exotic Nuclear Structures, Debrecen, May 2000

D17) *First identification of excited states in the $N = Z - 2$ nucleus ^{50}Fe*

S.M. Lenzi

Int. Conf. Structure of the nucleus at the dawn of the century, Bologna (Italy), June 2000

D18) *Exotic Nuclear States: the new information from Euroball*

M. Pignanelli

Int. Conf. Structure of the nucleus at the dawn of the century, Bologna (Italy), June 2000

D19) *Nuclear Structure at high spin and thermal energy studied with Euroball*

A. Bracco

Int. Conf. Structure of the nucleus at the dawn of the century, Bologna (Italy), June 2000

D20) *Mass and deformation dependence of rotational damping*

S. Leoni

Int. Conf. Nuclear structure and related topics, Dubna (Russia), June 2000

D21) *Role of $E1$ decay in the feeding of superdeformation from very selective GDR experiments*

F. Camera

Int. Conf. on Nuclear structure and related topics, Dubna (Russia), June 2000

D22) *The Giant Dipole Resonance in the Superdeformed nuclei and the feeding of superdeformed bands*

F. Camera

GR2000, Int. Conf. on Giant Resonances, Osaka (Japan), June 2000

D23) Euroball: selected physics cases

D. Curien

Nucleus Nucleus Collisions, Strasbourg (France), June 2000

Proceedings published in Nucl.Phys. A685, 198c (2001)

D24) Gamma decay of the GDR on superdeformed configurations in ^{143}Eu

A. Bracco

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D25) Towards far from Stability with Euroball

S. Lunardi

International School on Nuclear Physics, Erice (Italy), September 2000

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D26) EUROBALL Experiments at Strasbourg

G. Duchêne

NSNA2000, Rossendorf (Germany)

D27) Evolution of Nuclear Shapes and Exotic Decays Near ^{56}Ni

D. Rudolph, C. Andreoiu, J. Ekman, C. Fahlander, A. Gadea, and D.G. Sarantites

Proceedings published in **Acta Phys. Pol. B 32 (2001).703**

D27) High spin spectroscopy of light f_{772} nuclei studied with EUROBALL IV and the Recoil Filter Detector: a smooth band termination in ^{45}S

P. Bednarczyk, W. Meczynski, J. Styczen, J. Grebosz, M. Lach, A. Maj, M. Zieblinski, N. Kintz, J.C. Merdinger, N. Schulz, J.P. Vivien, A. Bracco, J.L. Pedroza, M.B. Smith, K.M. Spohr, Proceedings published in **Acta Physica Polonica B 32 (2001)**

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S. Lunardi

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Hamamoto et al.,

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T. Rzaca Urban,

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H. Hübel,

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S. Lunardi

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D33) *Collectivity and single particle effects in medium-light nuclei*

S. M. Lenzi

Symposium on Nuclear Structure Physics, Göttingen (Germany), March 2001

D34) *Medium heavy nuclei with $N = Z$ and Isospin symmetry*

P. G. Bizzeti

Symposium on Nuclear Structure Physics, Göttingen (Germany), March 2001

D35) *Towards far from stability with large Ge-arrays*

G. de Angelis

7th International Spring Seminar on Nuclear Physics, Maiori (Italy), May 2001

D36) *Quantum tunneling in superdeformed ^{143}Eu*

S. Leoni

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D37)

R. Chapman

3rd Int. Balkan workshop on applied physics, Targoviste (Romania), June 2001

D38)

M. Bentley

Int Conf. on Symmetries and Spins, Prague (Czech Republic), July 2001

D39) *The spectroscopy of fission fragments using fission sources at large γ -ray arrays*

J. Durell

Workshop on Nuclear Spectroscopy and Nuclear Astrophysics, Rossendorf (Germany), 2000

D40) *The structure and spectroscopy of neutron rich nuclei*

J. Durell

Int. Conf. on Exotic Nuclei and Masses, ENAM 2001, Hameenlinna (Finland), August 2001 to be published

D41) *The structure of intermediate mass neutron rich nuclei*

J. Durell

Int. Symp. on Radioactive Beam Research, Copenhagen (Denmark),

D42) *Nuclear properties and symmetries in $1f_{7/2}$ shell nuclei*

S. M. Lenzi

XIIIth Colloque Ganil, Belgodere, Corsica (France), September 2001

2002

D43)

M. Bentley

25th Int. Symp. On Nucl. Phys. Taxco, Mexico January 2002

D44) *Highlights from the physics with Euroball*

W. Korten

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E) EUROBALL experiments

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A. T. Semple (Liverpool) et al.

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A. G. Smith (Manchester) et al.

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A. Jungclaus (Göttingen) et al.

“RDTF g-factor measurement in the dipole yrast superdeformed band in ^{192}Hg .”

A. Bracco (Milano) et al.

“Lifetime measurements and collectivity in ^{114}Te : From discrete rotational bands to the chaotic regime.”

A. Atac (Uppsala) et al.

“Decay out and other aspects of superdeformation in ^{143}Eu .”

B. Cederwall (Stockholm) et al.

“A study of superdeformation and search for superdeformed-normaldeformed linking transitions in ^{154}Er .”

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G. Hagemann (NBI Copenhagen) et al.

“Tilted rotation in a triaxial SD well and ND residual interaction.”

J. Simpson (Daresbury) et al.

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C. M. Petrache (Padova) et al.

“Lifetime of the quasi-continuum in the highly-deformed minimum, shell structure and polarization effects in Nd nuclei.”

R. Krücken (Berkeley) et al.

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P.H. Regan (Surrey) et al.

“Investigation of the deformed oblate minimum in ^{74}Kr .”

R. Broda, B. Fornal (Cracow) et al.

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G. de Angelis (Legnaro) et al.

“High spin and band crossing phenomena in the ^{64}Ge nucleus.”

P.J. Dagnall (Manchester), J.F. Chemin (Bordeaux) et al.

“The investigation of SD states and their population in nuclei around ^{82}Sr .”

J. Durell (Manchester), C. Theisen (Saclay) et al.

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S. M. Lenzi (Padova) et al.

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Zs. Podolyak (Legnaro) et al.

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G. Viesti (Padova) et al.

“Search for hyperdeformation in nuclei around ^{152}Dy with the $^{37}\text{Cl}+^{120}\text{Sn}$ reaction.”

R.M. Lieder (Jülich) et al.

“Search for coexistence of highly and superdeformed shapes in ^{142}Gd .”

B. Herskind (NBI Copenhagen) et al.

“Search for hyperdeformation in $^{168-170}\text{Hf}$ by use of the very cold near symmetric reaction $^{76}\text{Ge} + ^{96}\text{Zr} \rightarrow ^{172}\text{Hf}$.”

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D. R. Page (Liverpool) et al.

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F. Dönau (Rossendorf) et al.

“Search for proton-neutron pairing in nuclei with mass number $A\sim 70$.”

C. Fahlander (Lund), L. O. Norlin (Stockolm) et al.

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A. Bracco (Milano) et al.

“Search for gamma decay of the giant dipole resonance in superdeformed nuclei.”

J. Nyberg (Uppsala) et al.

“High spin studies of nuclei around doubly magic ^{40}Ca .”

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“Investigation of $T=0$ coupling in the $N=Z$ nuclei ^{62}Ga , ^{66}As and ^{68}Se – a survey of the deformation dependence.”

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“Search for gamma-ray transitions in hyperdeformed $4N$ -nuclei with $A=36-44$.”

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P.H. Regan (Surrey), R. Wadsworth (York)

“Investigation of pairing correlations and collectivity in the N=Z nucleus ^{80}Zr .”

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A. Korichi (CSNSM Orsay) et al.

“Study of the superdeformed octupole vibrational structures in ^{190}Hg .”

J. Simpson (Daresbury) et al.

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G. Lo Bianco (Camerino) et al.

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A. Dewald (Köln) et al.

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C.D. O'Leary (Liverpool), M.A. Bentley (Staffordshire) et al.

“ $A=46$ isobaric analogue states: Mirror symmetry and cross-conjugate symmetry in light $f_{7/2}$ proton rich nuclei.”

M. Weiszflog (Uppsala) et al.

“Excitations and E2 polarizations of the ^{100}Sn core studied through the excited states of ^{97}Ag .”

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G. de Angelis (Legnaro) et al.

“Search for an experimental signature of the pn correlations.”

M. Gorska (GSI Darmstadt) et al.

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“Excited states above the 6^+ isomer in ^{102}Sn .”

G. Sletten (NBI Copenhagen) et al.

“Erosion of the K-quantum number in ^{180}Ta via intermediate states.”

R. Schwengner (Rossendorf) et al.

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“Investigation of chiral effects in ^{134}Pr .”

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“Search for rare γ -decays in the strongly deformed light neutron rich isotopes $^{10-12}\text{Be}$ and $^{13-16}\text{C}$.”

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G. de Angelis (Legnaro) et al.

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“Competing $T=1$ and $T=0$ pairing correlations in the odd-odd $N=Z$ ^{78}Y nucleus.”

A. Gadea (Legnaro) et al.

“In beam spectroscopy of the $T_z=-1$ ^{54}Ni nucleus.”

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M. Palacz (Warsaw), J. Nyberg (Uppsala) et al.

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“Search for gamma-ray transition in the HD 4N-nuclei with $A=36-46$ ”

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