

SELECTED LIST OF PUBLICATIONS

Scientific Journals with Referee

- 1) *Interaction strength and shape difference for the $h_{9/2}$ and $h_{11/2}$ configurations in ^{163}Tm*
H. J. Jensen, G. B. Hagemann, P.O. Tjøm, S. Frauendorf, A. Atac, M. Bergstrom, A. Bracco, A. Brokstedt, H. Carlson, P. Ekstrom, J.M. Espino, B. Herskind, F. Ingebretsen, J. Jongman, S. Leoni, R.M. Lieder, T. Lonnroth, A. Maj, B. Million, A. Nordlund, J. Nyberg, M. Piiparinen, H. Ryde, M. Sugawara and A. Virtanen
Z. Phys. **A340**, (1991)351-362.
- 2) *Effects of neutron exposure on the energy resolution of Ge(Hp) detectors*
F. Camera, A. Bracco, S. Leoni, B. Million, E. Rebesco
Nuc. Ins. Meth. **A314**(1992) 544-546.
- 3) *Fluctuation Analysis of Rotational Decay from Excited Nuclei*
B. Herskind, A.Bracco, R.A. Broglia, T. Døssing, A. Ikeda, S. Leoni, J. Lislé, M. Matsuo and E. Vigezzi
Phys. Rev. Lett. **68**, Number 20, (1992)3008.
- 4) *Fluctuations and Mean Field Effects in Rotational Damping*
R. A. Broglia, P. F. Bortignon, A. Bracco, B. Herskind, S. Leoni, M. Matsuo and E. Vigezzi
Nuc. Phys. **A557**, (1993)181c-190c.
- 5) *The distribution of the rotational transition strength in warm nuclei studied through γ -ray correlations*
S. Leoni, B. Herskind, T. Døssing, P. Rasmussen, P. Bosetti, A. Bracco, R. Broglia, S. Frattini, M. Matsuo, N. Nica, E. Vigezzi, A. Ataç, M. Bergström, A. Brockstedt, H. Carlsson, P. Ekström, F. Ingebretsen, H.J. Jensen, J. Jongman, G.B. Hagemann, R.M. Lieder, T. Lönroth, A. Maj, B. Million, A. Nordlund, J. Nyberg, M. Piiparinen, H. Ryde, D.C. Radford, M. Sugawara, P.O. Tjøm, and A. Virtanen
Nuc. Phys. **A587**, (1995)513.
- 6) *Towards Complete Spectroscopy in Rapidly Rotating Nuclei*
B. Herskind, S. Leoni, T. Døssing, G.B. Hagemann, P. Bosetti, A. Bracco, S. Frattini, E. Vigezzi and M. Matsuo
Acta Phys. Pol. B26(1995), p.153.
- 7) *Array of Anti-Compton Spectrometers as a Trigger in GDR Studies*
A. Maj, M. Kmiecik, F. Camera, B. Herskind, J.J. Gaardhøje, A. Bracco, A. Atac, R.A. Bark, I.G. Bearden, P. Bosetti, S. Leoni, M. Mattiuzzi, T.S. Tveter and Z. Zelazny
Acta Phys. Pol. **B27**, (1996)541-546.
- 8) *Fluctuation Analysis of Rotational Spectra*
T. Døssing, B. Herskind, S. Leoni, M. Matsuo, A. Bracco, R.A. Broglia, and E. Vigezzi
Phys. Rep. **268**(1), 1-84 (1996).

- 9) *Possible Conservation of the K-quantum Number in Excited Rotating Nuclei*
P. Bosetti, S. Leoni, A. Bracco, B. Herskind, T. Døssing, G.B. Hagemann, R. Bark, A. Brockstedt, P. Ekström, H. Carlsson, A. Nordlund, H. Ryde, F. Camera, S. Frattini, M. Mattiuzzi, B. Million, D. Bazzacco, R. Burch, G.de Angelis, D. De Acuna, M. de Poli and P. Pavan Phys. Rev. Lett. **76**(1996)1204.
- 10) *Microscopic Simulations of γ -cascades in warm rotating nuclei*
A. Bracco, P. Bosetti, S. Frattini, E. Vigezzi, S. Leoni, T. Døssing, B. Herskind, M. Matsuo Phys. Rev. Lett. **76**, (1996)4484.
- 11) *Nuclear Rotations*
A. Bracco, F. Alasia, S. Leoni, E. Vigezzi and R.A. Broglia
Contemp. Phys. **37**, (1996)183-204.
- 12) *Scars of Discrete Rotational Bands in Hot Nuclei*
R.A. Broglia, T. Døssing, M. Matsuo, E. Vigezzi, P. Bosetti, A. Bracco, S. Frattini, B. Herskind, S. Leoni, and P. Rasmussen
Z. Phys. **A356**, (1996) 259-262.
- 13) *The rotational Quasi-Continuum in specific Configurations: high-K states and superdeformation*
S. Leoni, P. Bosetti, A. Bracco, T. Døssing, B. Herskind and E. Vigezzi
Z. Phys. **A358**, (1997) 157-160.
- 14) *From discrete rotational bands to damped rotational motion*
E. Vigezzi, T. Døssing, M. Matsuo, K. Yoshida, P. Bosetti, A. Bracco, S. Frattini, B. Herskind, S. Leoni
Z. Phys. **A358** (1997) 207-211.
- 15) *GDR in Superdeformed Nuclei*
F. Camera, A. Bracco, P. Bosetti, S. Leoni, M. Mattiuzzi, G. Turri, B. Herskind, J.J. Gaardhøje, R. Bark, I.G. Bearden, A. Maj, M. Kmiecik
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- 16) *Interactions between a multitude of rotational bands in well deformed odd nuclei*
G.B.Hagemann, H.Ryde, P.Bosetti, A.Brockstedt, H.Carlsson, L.P.Ekstrom, A. Nordlund, R.A.Bark, B.Herskind, S. Leoni, A.Bracco, F.Camera, S.Frattini, M.Mattiuzzi, B.Million, C.Rossi-Alvarez, G.deAngelis, D.Bazzacco, S.Lunardi and M.DePoli
Nucl. Phys. **A618**(1997) 199-237.
- 17) *Study of band mixing in the rotational Quasi-Continuum*
A. Bracco, P. Bosetti, S. Leoni, S. Frattini, E. Vigezzi, T. Døssing, B. Herskind and M. Matsuo
Prog. Part. Nucl. Phys. **38** (1997)185-194.
- 18) *The Giant Dipole Resonance in the Superdeformed ^{143}Eu nucleus*
A. Bracco, F. Camera, A. Maj, B. Herskind, A. Atac, P. Bosetti, R. Bark, I.G. Bearden, J.J. Gaardhøje, M. Kmiecik, S. Leoni, M. Mattiuzzi and G. Turri
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- 19) *High-K Band Structure in ^{164}Er*
R.A. Bark, P. Bosetti, G.B. Hagemann, H. Ryde, A. Brockstedt, H. Carlsson, L.P. Ekstrom, A. Nordlund, B. Herskind, S. Leoni, A. Bracco, F. Camera, S. Frattini, M. Mattiuzzi, B. Million, C. Rossi-Alvarez, G. DeAngelis, D. Bazzacco, S. Lunardi and M. DePoli
Z. Phys. **A359** (1997)5-6.
- 20) *Lifetime measurements of the rotational quasi-continuum transitions in ^{163}Tm*
B. Million, S. Leoni, A. Bracco, J. Moretti, S. Frattini, P. Bosetti, F. Camera, M. Mattiuzzi, B. Herskind, R.A. Bark, I.G. Bearden, G.B. Hagemann and H.J. Jensen
Pys. Lett. **B415** (1997)321-327.
- 21) *Structure of excited bands in ^{162}Tm and residual interaction*
J.M. Espino, G.B. Hagemann, I.G. Bearden, R.A. Bark, M. Bergstrom, A. Bracco, B. Herskind, H.J. Jensen, S. Leoni, C. Martinez-Torre, B. Million, P.O. Tjøm
Nucl. Phys. **A640** (1998)163-195.
- 22) *The Rotational Quadrupole Moment of Thermally Excited High Spin States in ^{164}Yb*
S. Frattini, A. Bracco, S. Leoni, P. Bosetti, B. Herskind, T. Døssing, M. Bergstrom, G.B. Hagemann, H. Ryde, J.P. Vivien, A. Bagshaw, D. Smalley and A.G. Smith
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- 23) *GDR excited in rotating nuclei, recent developments*
F. Camera, A. Bracco, A. Maj, S. Leoni, M. Mattiuzzi, B. Million, G. Turri, M. Kmiecik,
Heavy Ion Physics **7** (1998) 385-395.
- 24) *Possible evidence for the entrance channel effect in reactions leading to ^{170}W*
M. Kmiecik, A. Maj, B. Herskind, A. Bracco, R.A. Bark, M. Bergstrom, F. Camera, G. Hagemann, N. Hashimoto, A. Holm, S. Leoni, T. Saitoh, T. Tveter
European Physical Journal EPJ **A1** (1998)11.
- 25) *Experimental Study of the Nuclear Rotational Motion with Statistical Analysis Methods*
S. Leoni, A. Bracco, S. Frattini, G. Montingelli, E. Vigezzi, T. Døssing, B. Herskind, M. Matsuo
Nucl. Phys. **A649**(1999) 361c.
- 26) *The rotational quadrupole moment of continuum-states at high-spin in ^{164}Yb*
S. Frattini, A. Bracco, S. Leoni, B. Million, B. Herskind, T. Døssing, M. Bergstrom and G.B. Hagemann
Nucl. Phys. **A649**(1999) 387c.
- 27) *The GDR in Hg and Eu nuclei from selected decay chains*
F. Camera, A. Bracco, G. Colombo, S. Leoni, B. Million, M. Mattiuzzi, A. Maj, M. Kmiecik, B. Herskind, R. Bark, J. Bearden, JJ. Gordøje and W.E. Ormand
Nucl. Phys. **A649**(1999) 115c.
- 28) *Nuclear Structure and Selection Rules in the Rotational Quasi-Continuum*
S. Leoni, A. Bracco, S. Frattini, G. Montingelli, E. Vigezzi, T. Døssing, B. Herskind, M. Matsuo
Acta Phys. Pol. **B30**, (3)511(1999).

- 29) *Highly-excited normal and super-deformed rotating nuclei studied with E1 and E2 γ continuum measurements*
A. Bracco, F. Camera, S. Frattini, S. Leoni, B. Million, A. Maj, M. Kmiecik, B. Herskind and M. Bergstrom
Acta Phys. Pol. **B30**, (3)501(1999).
- 30) *Multistep Rotational Energy Correlations probed by High Fold γ Coincidence Data*
S. Leoni, A. Bracco, T. Døssing, B. Herskind, J.C. Lisle, M. Matsuo, E. Vigezzi, J. Wrzesinski
Eur. Phys. J. **A4**, 229-231(1999).
- 31) *Probing the shape of hot ^{194}Hg at high spins with the giant dipole resonance decay in selected cascades*
F. Camera, A. Bracco, S. Leoni, B. Million, M. Mattiuzzi, M. Pignanelli, A. Maj, M. Kmiecik, R. Bark, J. Bearden, J.J. Gordøje, T. Lonnroth and R. Osterbacka
Phys. Rev. **C60** 014306(1999).
- 32) *Unresolved γ -rays in ^{114}Te : mass dependence of rotational damping*
S. Frattini, A. Bracco, S. Leoni, F. Camera, B. Million, N. Blasi, G. LoBianco, M. Pignanelli, E. Vigezzi, B. Herskind, T. Døssing, M. Bergstrom, P. Varmette and S. Tormanen, A. Maj, M. Kmiecik, D.R. Napoli and M. Matsuo
Phys. Rev. Lett. **83**, 5234(1999).
- 33) *Decay Out of the yrast superdeformed band in ^{136}Nd : towards an experimental extraction of the neutron pairing gap in the second well*
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, C. Fahlander, E. Farnea, A. Gadea, D.R. Napoli, Zs. Podolyak, A. Bracco, S. Frattini, S. Leoni, B. Cederwall, A. Johnson, R. Wyss
Nuc. Phys. **A654**, 714c(1999).
- 34) *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
Phys. Rev. **C60**, 64313(1999).
- 35) *The GDR width in the excited ^{147}Eu compound nucleus at high angular momentum*
M. Kmiecik, A. Maj, A. Bracco, F. Camera, M. Casanova, S. Leoni, B. Million, B. Herskind, R.A. Bark and W.E. Ormand
Nucl. Phys. **A674** (2000)29.
- 36) *Covariance analysis of selection rules governing the γ -decay cascades of the rotational nucleus ^{164}Yb*
S. Leoni, T. Døssing, A. Bracco, S. Frattini, G. Montingelli, E. Vigezzi, M. Bergstrom, G.B. Hagemann, B. Herskind and M. Matsuo
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- 37) *The rotational γ -continuum in the mass $A \approx 110$*
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
Nuc. Phys. **A673**, 64(2000).
- 38) *Measurement 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 and O. Wieland
Nuc. Inst. Meth. **A452** (2000)422.
- 39) *Search for the GDR built on superdeformed nuclei*
A. Bracco, F. Camera, S. Leoni, B. Million, S. Frattini, A. Maj, B. Herskind, A. Algora, A. Axelsson, M. Bergstrom, N. Blasi, M. Castoldi, A. Gadea, M. Kmiecik, G. Lo Bianco, J. Nyberg, M. Pignanelli, J. Styczen, M. Zieblinski, A. Zucchiatti
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- 40) *Quantum tunnelling of the excited rotational bands in the superdeformed nucleus ^{143}Eu*
S. Leoni, A. Bracco, F. Camera, B. Million, A. Algora, A. Axelsson, G. Benzoni, M. Bergstrom, 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, A. Zucchiatti
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- 41) *Gamma-Ray Tracking Arrays*
R. M. Lieder, W. Gast, H.M. Jager, L. Mihailescu, M. Rossewijn, J. Eberth, G. Pascovici, H.G. Thomas, D. Weisshaar, F. Beck, D. Curien, G. Duchene, E. Pachoud, I. Piqueras, C. Rossi-Alvarez, D. Bazzacco, M. Bellato, Th. Kroell, Ch. Manea, B. Quintana, R. Venturelli, D.R. Napoli, D. Rosso, P. Spolaore, A. Geraci, A. Pullia, G. Ripamonti, F. Camera, S. Leoni, B. Million, O. Wiland, A. Bracco, M. Pignanelli, S. Brambilla, J. Lisle, A.G. Smith, R. Well, P. Nolan, A. Boston, D. Cullen, M. Descovich, T. Enqvist, C. Cedrwall, E. Ideguchi, J. Van der Marel, J. Nyberg, B. Herskind, G. Sletten, J. Wilson, R. Henck, D. Gutknecht, K. Jaaskelainen
Prog. Part. Nucl. Phys. **46** (2001)399.
- 42) *Evidence for the wobbling mode in nuclei*
S. Ødegård, G. B. Hagemann, D.R. Jensen, M. Bergstrom, B. Herskind, G. Sletten, S. Tormanen, J. Wilson, P.O. Tjøm, I. Hamamoto, K. Sphor, H. Hübel, A. Gørgen, G. Shönwasser, A. Bracco, S. Leoni, A. Maj, C. Petrache, P. Bednarczyk, D. Curien
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- 43) *Search for Exotic Shapes of Hot Nuclei at Critical Angular Momenta*
A. Maj, M. Kmiecik, W. Krolas, W. Meczynski, J. Styczen, M. Zieblinski, B. Million, A. Bracco, F. Camera, S. Leoni, O. Wieland, B. Herskind, M. Kicinska-Habior
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- 44) *The Giant Dipole Resonance in superdeformed nuclei and the feeding of superdeformed bands*
A. Bracco, F. Camera, S. Leoni, B. Million, A. Maj, and M. Kmiecik
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- 45) *Gamma Decay of the GDR on superdeformed configurations of ^{143}Eu*
A. Bracco, F. Camera and S. Leoni
Nucl. Phys. **A682** (2001)449c.

- 46) *Coupling between Thermal and Rotational Motion in Nuclei*
T. Døssing, B. Herskind, M. Matsuo, A. Bracco, E. Vigezzi and R.A. Broglia
Nucl. Phys. **A682** (2001)439c.
- 47) *Search for the wobbling mode built on triaxial super deformation*
S. W. Ødegård, G. B. Hagemann, M. Bergstrom, B. Herskind, D.R. Jensen, G. Sletten, S. Törmanen, J. Wilson, P.O. Tjøm, K. Sphor, H. Hübel, A. Gørgen, G. Schönwasser, A. Bracco, S. Leoni, A. Maj, C. Petrache, P. Bednarczyk, D. Curien and I. Hamamoto
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- 48) *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
Phys. Lett. **B540** (2002)199.
- 49) *High-lying collective rotational states in nuclei*
A. Bracco and S. Leoni
Rep. Prog. Phys. 65 (2002)299-352.
- 50) *Wobbling phonon excitations, coexisting with normal deformed structures in ^{163}Lu*
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- 51) *Evidence for second phonon nuclear-wobbling*
D.R. Jensen, G. B. Hagemann, I. Hamamoto, S. W. Ødegård, B. Herskind, G. Sletten, J. Wilson, K. Sphor, H. Hübel, P. Bringel, A. Neuber, G. Schönwasser, A.K. Singh, W.C. Ma, H. Amro, A. Bracco, S. Leoni, G. Benzoni, A. Maj, C. M. Petrache, G. LoBianco, P. Bednarczyk, D. Curien
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- 52) *Candidates for chiral doublet bands in ^{136}Nd*
Mergel E., Petrache C.M., Lo Bianco G., Hubel H., Domscheit J., Rossbach D., Schonwasser G., Nenoff N., Neusser A., Gorgen A., Becker F., Bouchez E., Houry M., Hurstel A., Le Coz Y., Lucas R., Theisen Ch., Korten W., Bracco A., Blasi N., Camera F., Leoni S., Hannachi F., Lopez-Martens A., Rejmund M., Gassmann D., Reiter P., Thierolf P.G., Astier A., Bufo N., Meyer M., Redon N., Stezowski O.
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- 53) *Radiative fusion from very symmetric reactions: the giant dipole resonance in the ^{197}Au nucleus*
F. Camera, A. Bracco, V. Nanal, M.P. Carpenter, F. Della Vedova, S. Leoni, B. Million, S. Mantovani, M. Pignanelli, O. Wieland, B.B. Back, A.M. Heinz, R.V.F. Janssens, D. Jenkins, T.L. Khoo, F.G. Kondev, T. Lauritsen, C.J. Lister, B. McClintock, S. Mitsuoka, E.F. Moore, D. Seweryniak, R.H. Siemssen, R.J. Van Swol, D. Hofman, M. Thoennessen, K. Eisenman, P. Heckman, J. Seitz, R. Varner, M. Halbert, I. Dioszegi, A. Lopez-Martens
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- 54)** *Coexisting wobbling and quasiparticle excitations in the triaxial potential well of ^{163}Lu*
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- 55)** *Evidence for the Jacobi shape transition in hot ^{48}Ti*
A. Maj, M. Kmiecik, A. Bracco, F. Camera, P. Bednarczyk, B. Herskind, S. Brambilla, G. Benzoni, M. Brekiesz, D. Curien, G. De Angelis, E. Farnea, J. Grebosz, M. Kicinska-Habior, S. Leoni, Mieczyski, B. Million, D.R. Napoli, J. Nyberg, C. M. Petrache, J. Styczen, O. Wieland, M. Zieblinski, K. Zuber, N. Dubray, J. Dudek and K. Pomorski
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- 56)** *One- and two-phonon wobbling excitations in triaxial ^{165}Lu*
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- 57)** *Study of selection rules in warm rotating nuclei*
G. Benzoni, A. Bracco, F. Camera, S. Leoni, B. Million, O. Wieland, N. Balsi, M. Pignanelli, A. Maj, M. Kmiecik, B. Herskind, G.B. Hagemann, J. Wilson, G. LoBianco, C. Petrache, M. Castoldi, A. Zucchiati, G. De Angelis, D. Napoli, P. Bednarczyk, D. Curien
Acta Phys. Pol. B 34 (2003)2221
- 58)** *Hunting grounds for Jacobi shape transitions and hyperdeformations*
B. Herskind, G. Benzoni, J.N. Wilson, T. Døssing, G.B. Hagemann, G. Sletten, C. Rønn Hansen, D.R. Jensen, A. Bracco, F. Camera, S. Leoni, P. Mason, O. Wieland, A. Maj, M. Brekiesz, M. Kmiecik, H. Hübel, P. Bringel, A. Neußer, A.K. Singh, R.M. Diamond, R.M. Clark, M. Cromaz, P. Fallon, A. Gørgen, I.Y. Lee, A.O. Macchiavelli, A.O. Ward, F. Hannachi, A. Korichi, A. Lopez-Martens, T. Byrski, D. Curien, P. Bednarczyk, J. Dudek, H. Amro, W.C. Ma, J. Lisle, S.W. Ødegård, C. Petrache, D. Petrache, T. Steinhardt, O. Thelen
Acta Phys. Pol. B 34 (2003) 2467.
- 59)** *Double Giant Dipole Resonance in Hot Nuclei*
M. Cinausero, V. Rizzi, G. Viesti, D. Fabris, M. Lunardon, S. Moretto, G. Nebbia, S. Pesente, M. Barbui, E. Fioretto, G. Prete, A. Bracco, F. Camera, B. Million, S. Leoni, O. Wieland, G. Benzoni, S. Brambilla, A. Airolidi, A. Maj, M. Kmiecik
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- 60)** *Violation and persistence of the K-quantum number in warm rotating*
M. Matsuo, T. Dossing, A. Bracco, G.B. Hagemann, B. Herskind, S. Leoni, E. Vigezzi
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- 61)** *Compound and Rotational Damping in Warm Deformed Rare-earth nuclei*
S. Leoni, M. Matsuo, A. Bracco, G. Benzoni, N. Blasi, F. Camera, C. Grassi, B. Million, A. Paleni, M. Pignanelli, E. Vigezzi, O. Wieland, T. Døssing, B. Herskind, G.B. Hagemann, Wilson, A. Maj, M. Kmiecik, G. Lo Bianco, C. M. Petrache, M. Castaldi, A. Succhiati, G. De Angelis, D. Napoli, P. Bednarczyk, D. Curien
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Schools and Conference Proceedings

- 62) *Delayed Band Crossing in the Unfavoured Signature Partner of the $h_{9/2}[541]1/2^-$ band in ^{163}Tm*
H.J. Jensen, G.B. Hagemann et al.
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