

**Gerhard Graw, Publikationen in Zeitschriften (ab 1998):**  
**Arbeiten am Münchener Beschleuniger,**  
**Arbeiten am DESY, Hamburg: HERMES Kollaboration**

1. *Spectroscopy of  $^{232}\text{U}$  in the  $(p,t)$  reaction: More information on  $0^+$  excitations*  
A.I. Levon, P. Alexa, G. Graw, R. Hertenberger, S. Pascu, P.G. Thirolf, H.-F. Wirth,  
Phys. Rev. C **92**, 064319 (2015)
2.  *$0^+$  states and collective bands in  $^{228}\text{Th}$  studied by the  $(p,t)$  reaction*  
A.I. Levon, G. Graw, R. Hertenberger, S. Pascu, P. G. Thirolf, H.-F. Wirth, and P.  
Alexa  
Phys. Rev. C **88**, 014310 (2013)
3. *High-resolution studies of excited  $0^+$  states in  $^{200}\text{Hg}$  and  $^{202}\text{Hg}$*   
C. Bernards, R. F. Casten, V. Werner, P. von Brentano, D. Bucurescu, G. Graw,  
S.Heinze, R. Hertenberger, J. Jolie, S. Lalkovski, D. A. Meyer, D. Mücher, P. Pejo-  
vic, C. Scholl, and H.-F. Wirth  
Phys. Rev. C **87**, 064321 (2013)
4. *Investigation of  $0^+$  states in  $^{198}\text{Hg}$  after two-neutron pickup*  
C. Bernards, R. F. Casten, V. Werner, P. von Brentano, D. Bucurescu, G. Graw, S.  
Heinze, R. Hertenberger, J. Jolie, S. Lalkovski, D. A. Meyer, D. Mucher, P. Pejovic,  
C. Scholl, and H.-F. Wirth  
Phys. Rev. C **87**, 024318 (2013)
5. *High resolution spectroscopy of  $^{112}\text{Sn}$  through the  $^{114}\text{Sn}(p,t)^{112}\text{Sn}$  reaction.*  
P.Guazzoni, L.Zetta, A.Covello, A.Gargano, B.F.Bayman, G.Graw, R.Hertenberger,  
H-F.Wirth, T.Faestermann, M.Jaskola  
Phys. Rev. C **85**, 054609 (2012)
6. *High resolution measurement of the  $^{118,124}\text{Sn}(p,t)^{116,122}\text{Sn}$  reactions: shell model and  
mocrosopic DWBA calculations.*  
P.Guazzoni, L.Zetta, A.Covello, A.Gargano, B.F.Bayman, T.Faestermann, G.Graw,  
R.Hertenberger, H-F.Wirth, M.Jaskola  
Phys. Rev. C **83** , 044614 (2011)
7. *Particle-hole structure of states in  $^{208}\text{Pb}$  determined by the proton decay of the  $d_{5/2}$   
isobaric analog resonance in  $^{209}\text{Bi}$*   
A. Heusler, T. Faestermann, G. Graw, R. Hertenberger, J. Jolie, R. Krcken, D.  
Mcher, N. Pietralla, C. Scholl, V. Werner, P. von Brentano  
Eur.Phys.J.A **47**, 22 (2011)
8. *Positive parity states in  $^{208}\text{Pb}$  excited by the proton decay of the isobaric analog in-  
truder resonance  $j_{15/2}$  in  $^{209}\text{Bi}$*   
A. Heusler, G. Graw, R. Hertenberger, F. Riess, H.-F. Wirth, T. Faestermann, R.

- Krucken, T. Behrens, V. Bildstein, K. Eppinger, C. Herlitzius, O. Lepyoshkina, M. Mahgoub, A. Parikh, S. Schwertel, K. Wimmer, N. Pietralla, V. Werner, J. Jolie, D. Mucher, C. Scholl, and P. von Brentano  
 Phys.Rev. **C 82**, 014316 (2010)
9. *Structure investigation with the  $(p, t)$  reaction on  $^{132,134}\text{Ba}$  nuclei*  
 S.Pascu, Gh.Cata-Danil, D.Bucurescu, N.Marginean, C.Muller, N.V.Zamfir, G.Graw, A.Gollwitzer, D.Hofer, B.D.Valnion  
 Phys.Rev. **C 81**, 014304 (2010)
  10. *Observation of five high-spin members of the  $g_{9/2}f_{7/2}$  multiplet in  $^{208}\text{Pb}$*   
 A. Heusler, G. Graw, Th. Faestermann, R. Hertenberger, R. Krucken, C. Scholl, H.-F. Wirth, and P. von Brentano  
 Eur.Phys.J. **A 44**, 233 (2010)
  11. *High-resolution study of  $0^+$  states in  $^{170}\text{Yb}$*   
 L.Bettermann, S.Heinze, J.Jolie, D.Mucher, O.Moller, C.Scholl, R.F.Casten, D.Meyer, G.Graw, R.Hertenberger, H.-F.Wirth, D.Bucurescu  
 Phys.Rev. **C 80**, 044333 (2009)
  12. *Investigation of the  $^{128}\text{Ba}$  nucleus with the  $(p,t)$  reaction*  
 S.Pascu, Gh.Cata-Danil, D.Bucurescu, N.Marginean, N.V.Zamfir, G.Graw, A.Gollwitzer, D.Hofer, B.D.Valnion  
 Phys. Rev. **C 79**, 064323 (2009)
  13. *New supersymmetric quartet of nuclei in the  $A 190$  mass region*  
 J.Barea, R.Bijker, A.Frank, G.Graw, R.Hertenberger, H.-F.Wirth, S.Christen, J.Jolie, D.Tonev, M.Balodis, J.Berzin, N.Kramere, T.von Egidy  
 Phys. Rev. **C 79**, 031304(R) (2009)
  14. *Spectroscopy of  $^{230}\text{Th}$  in the  $(p, t)$  reaction*  
 A.I.Levon, G.Graw, Y.Eisermann, R.Hertenberger, J.Jolie, N.Yu.Shirikova, A.E.Stuchbery, A.V.Sushkov, P.G.Thirolf, H.-F.Wirth, N.V.Zamfir  
 Phys.Rev. **C 79**, 014318 (2009)
  15.  *$^{118}\text{Sn}$  levels studied by the  $^{120}\text{Sn}(p,t)$  reaction: High-resolution measurements, shell model, and distorted-wave Born approximation calculations*  
 P.Guazzoni, L.Zetta, A.Covello, A.Gargano, B.F.Bayman, T.Faestermann, G.Graw, R.Hertenberger, H-F.Wirth, M.Jaskola  
 Phys. Rev. **C 78** , 064608 (2008)
  16. *Transfer and neutron capture reactions to  $^{194}\text{Ir}$  as a test of  $U(6/12)U(6/4)$  supersymmetry*  
 M.Balodis, H.-F.Wirth, G.Graw, R.Hertenberger, J.Berzins, N.Kramere, J.Jolie, S.Christen, O.Moller, D.Tonev, J.Barea, R.Bijker, A.Frank, T.von Egidy

- Phys. Rev. C **77**, 064602 (2008)
17. *High-resolution study of  $0^+$  and  $2^+$  excitations in  $^{168}\text{Er}$  with the  $(p, t)$  reaction*  
D.Bucurescu, R.F.Casten, G.Graw, J.Jolie, N.Braun, P.von Brentano, T.Faestermann, S.Heinze, R.Hertenberger, N.Lo Iudice, R.Krucken, M.Mahgoub, D.A.Meyer, O.Moller, D.Mucher, C.Scholl, N.Yu.Shirikova, Y.Sun, A.V.Sushkov, H.-F.Wirth  
Phys. Atomic Nuclei **70**, 1336 (2007)
  18. *Proton threshold states in the  $^{22}\text{Na}(p, \gamma)^{23}\text{Mg}$  reaction and astrophysical implications*  
H. Comisel, C. Hategan, G. Graw, H.H. Wolter  
Phys. Rev. C **75**, 045807 (2007)
  19. *High-resolution investigation of the  $^{121}\text{Sb}(p, t)^{119}\text{Sb}$  reaction and quasiparticle-phonon model description*  
P.Guazzoni, L.Zetta, V.Yu.Ponomarev, G.Graw, R.Hertenberger, T.Faestermann, H.-F.Wirth, M.Jaskola  
J. Phys.(London) **G 34**, 2665 (2007)
  20. *Mixing strength in the two lowest  $0^-$  states in  $^{208}\text{Pb}$*   
A. Heusler, G. Graw, R. Hertenberger, F. Riess, R. Krucken, H.-F. Wirth, P. von Brentano  
Phys. Rev. C **75**, 024312 (2007)
  21. *Spectroscopy of  $^{110}\text{Sn}$  via the high-resolution  $^{112}\text{Sn}(p, t)^{110}\text{Sn}$  reaction*  
P.Guazzoni, L.Zetta, A.Covello, A.Gargano, B.F.Bayman, G.Graw, R.Hertenberger, H.-F.Wirth, M.Jaskola  
Phys. Rev. C **74**, 054605 (2006)
  22. *Extensive investigation of  $0^+$  states in rare earth region nuclei*  
D.A.Meyer, V.Wood, R.F.Casten, C.R.Fitzpatrick, G.Graw, D.Bucurescu, J.Jolie, P.von Brentano, R.Hertenberger, H.-F.Wirth, N.Braun, T.Faestermann, S.Heinze, J.L.Jerke, R.Krücken, M.Mahgoub, O.Möller, D.Mücher, C.Scholl  
Phys. Rev. C **74**, 044309 (2006)
  23. *The  $i11/2f5/2$  and  $i11/2p3/2$  neutron particle-hole multiplets in  $^{208}\text{Pb}$*   
D.Mücher, N.Pietralla, P.von Brentano  
A.Heusler, G.Graw, R.Hertenberger, F.Riess, H.-F.Wirth, T.Faestermann, R.Krücken, J.Jolie  
Phys. Rev. C **74**, 034303 (2006)
  24. *High-resolution study of  $0^+$  and  $2^+$  excitations in  $^{168}\text{Er}$  with the  $(p, t)$  reaction*  
D. Bucurescu, G.Graw, R.Hertenberger, H.-F.Wirth, N.Lo Iudice, A.V.Sushkov, N.Yu.Shirikova, Y.Sun, T.Faestermann, R.Krücken, M.Mahgoub, J.Jolie, P.von Brentano, N.Braun, S.Heinze, O.Möller, D.Mücher, C.Scholl, R.F.Casten, D.A.Meyer

25. *Enhanced density of low-lying  $0^+$  states: A corroboration of shape phase transitional behavior*  
D.A.Meyer, V.Wood, R.F.Casten, C.R.Fitzpatrick, G.Graw, D.Bucurescu, J.Jolie, P.von Brentano, R.Hertenberger, H.-F.Wirth, N.Braun, T.Faestermann, S.Heinze, J.L.Jerke, R.Krücken, M.Mahgoub, O.Möller, D.Mücher, C.Scholl  
Phys. Lett. **B 638**, 44 (2006)
  
26. *Low-spin mixed particle-hole structures in  $^{185}\text{W}$*   
V.Bondarenko, J.Honzatko, I.Tomandl, T.von Egidy, H.-F.Wirth, A.M.Sukhovoij, L.A.Malov, L.I.Simonova, P.Alexa, J.Berzins, R.Hertenberger, Y.Eisermann, G.Graw  
Nucl. Phys. **A 762**, 167 (2005)
  
27. *Detailed spectroscopy of  $^{113}\text{Cd}$  through transfer reactions*  
D.Bucurescu, Y.Eisermann, G.Graw, R.Hertenberger, H.-F.Wirth, V.Yu.Ponomarev  
Nucl. Phys. **A 756**, 54 (2005)
  
28. *Resonant tunneling through the triple-humped fission barrier of  $^{236}\text{U}$*   
M.Csatlos, A.Krasznahorkay, P.G.Thirolf, D.Habs, Y.Eisermann, T.Faestermann, G.Graw, J.Gulyas, M.N.Harakeh, R.Hertenberger, M.Hunyadi, H.J.Maier, Z.Mate, O.Schaile, H.-F.Wirth  
Phys. Lett. **B 615**, 175 (2005)
  
29.  *$^{120}\text{Sn}$  homologous levels via the  $^{123}\text{Sb}(p(\text{pol}), ^4\text{He})^{120}\text{Sn}$  reaction: Experimental evidence and microscopic calculations*  
P.Guazzoni, L.Zetta, B.F.Bayman, A.Covello, A.Gargano, G.Graw, R.Hertenberger, H.-F.Wirth, M.Jaskola  
Phys. Rev. C **72**, 044604 (2005)
  
30. *Nuclear structure of  $^{127}\text{Te}$  studied with  $(n, \text{gamma})$  and  $(d(\text{pol}), p)$  reactions and interpreted with IBFM and QPM*  
J.Honzatko, V.Bondarenko, I.Tomandl, T.von Egidy, H.-F.Wirth, D.Bucurescu, V.Yu.Ponomarev, N.Marginean, R.Hertenberger, Y.Eisermann, G.Graw, L.Rubacek  
Nucl. Phys. **A 756**, 249 (2005)
  
31. *Systematic exploration of  $0^+$  states in structurally diverse nuclei*  
D.A.Meyer, G.Graw, R.Hertenberger, H.-F.Wirth, R.F.Casten, P.von Brentano, D.Bucurescu, S.Heinze, J.L.Jerke, J.Jolie, R.Krücken, M.Mahgoub, P.Pejovic, O.Möller, D.Mücher, C.Scholl  
J. Phys. (London) **G 31**, S1399 (2005)
  
32. *Nuclear structure of  $^{159}\text{Gd}$*   
C.Granja, S.Pospisil, A.Aprahamian, H.Börner, H.Lehmann, T.von Egidy, H.-F.Wirth, G.Graw, R.Hertenberger, Y.Eisermann, D.Nosek, L.Rubacek, S.A.Telezhnikov

- Phys. Rev. C **70**, 034316 (2004)
33. *One- and two-nucleon transfer reactions to  $^{196}\text{Au}$*   
H.-F.Wirth, G.Graw, S.Christen, Y.Eisermann, A.Gollwitzer, R.Hertenberger, J.Jolie, A.Metz, O.Möller, D.Tonev, B.D.Valnion  
Phys. Rev. C **70**, 014610 (2004)
  34.  *$0^+$  states in deformed actinide nuclei by the  $(p, t)$  reaction*  
H.-F.Wirth, G.Graw, S.Christen, D.Cutoiu, Y.Eisermann, C.Günther, R.Hertenberger, J.Jolie, A.I.Levon, O.Möller, G.Thiamova, P.Thirolf, D.Tonev, N.V.Zamfir  
Phys. Rev. C **69**, 044310 (2004)
  35. *High-resolution study of the  $^{116}\text{Sn}(p, t)$  reaction and shell model structure of  $^{114}\text{Sn}$*   
P.Guazzoni, L.Zetta, A.Covello, A.Gargano, G.Graw, R.Hertenberger, H.-F.Wirth, M.Jaskola  
Phys. Rev. C **69**, 024619 (2004)
  36. *Nuclear spectroscopy of  $^{24}\text{Na}$  via  $(d(\text{pol}), p)$  and  $(n, \text{gamma})$  reactions*  
I.Tomandl, J.Novak, V.Burjan, S.Raman, T.von Egidy, H.-F.Wirth, U.Koster, W.Schauer, J.W.Starner, E.T.Jurney, G.Graw, R.Hertenberger, A.Gollwitzer, B.Valnion, A.Metz  
Phys. Rev. C **69**, 014312 (2004)
  37. *Search for cluster structure of excited states in  $^{14}\text{C}$*   
W.von Oertzen, H.G.Bohlen, M.Milin, Tz.Kokalova, S.Thummerer, A.Tumino, R.Kalpakchieva, T.N.Massey, Y.Eisermann, G.Graw, T.Faestermann, R.Hertenberger, H.-F.Wirth  
Eur. Phys. Journal. A **21**, 193 (2004)
  38. *Hyperdeformation and Clustering in the Actinide Region*  
A.Krasznahorkay, M.Csatlos, L.Csige, Y.Eisermann, T.Faestermann, Z.Gacsi, G.Graw, J.Gulyas, D.Habs, M.N.Harakeh, M.Heil, R.Hertenberger, F.Kappeler, A.Krasznahorkay, Jr., M.J.Maier, Z.Mate, R.Reifarth, P.G.Thirolf, J.Timar, H.F.Wirth  
Acta Phys. Hung. N.S. **18**, 323 (2003)
  39. *First excited state of the  $s$ -process branching nucleus  $^{95}\text{Zr}$*   
K.Sonnabend, P.Mohr, A.Zilges, R.Hertenberger, H.-F.Wirth, G.Graw, T.Faestermann  
Phys. Rev. C **68**, 048802 (2003)
  40. *Detailed Spectroscopy of Superdeformed Actinide Nuclei*  
P.G.Thirolf, D.Gassmann, D.Habs, M.Hunyadi, A.Krasznahorkay, E.Mergel, H.Hübel, D.Pansegrau, D.Schwalm, M.J.Chromik, M.Csatlos, J.Domscheit, Y.Eisermann, T.Faestermann, G.Graw, A.Gorgen, J.Gulyas, K.Hauschild, R.Hertenberger, T.Härtlein, F.Kock, A.Lopez-Martens, Z.Mate, H.J.Maier, A.Metz, S.Neumann, A.Neusser, P.Reiter, G.Schonwasser, H.Scheit  
Acta Phys. Hung. N.S. **18**, 317 (2003)

41. *Nuclear structure of  $^{131}\text{Te}$  studied with  $(n, \gamma)$  and  $(d(\text{pol}), p)$  reactions*  
I.Tomandl, T.von Egidy, J.Honzatko, V.Bondarenko, H.-F.Wirth, D.Bucurescu, V.Y.Ponomarev,  
G.Graw, R.Hertenberger, Y.Eisermann, S.Raman  
Nucl. Phys. **A 717**, 149 (2003)
  
42. *Nuclear structure of  $^{129}\text{Te}$  studied with  $(n, \gamma)$ ,  $(d, p)$  and  $(d(\text{pol}), t)$  reactions*  
H.-F.Wirth, T.von Egidy, I.Tomandl, J.Honzatko, D.Bucurescu, N.Marginean, V.Yu.Ponomarev,  
R.Hertenberger, Y.Eisermann, G.Graw  
Nucl. Phys. **A 716**, 3 (2003)
  
43. *Interplay of Quasiparticle and Phonon Excitations in  $^{181}\text{Hf}$  Observed Through  $(n, \gamma)$  and  $(d(\text{pol}), p)$  Reactions*  
V.Bondarenko, J.Berzins, P.Prokofjevs, L.Simonova, T.von Egidy, J.Honzatko, I.Tomandl,  
P.Alexa, H.-F.Wirth, U.Köster, Y.Eisermann, A.Metz, G.Graw, R.Hertenberger,  
L.Rubacek  
Nucl. Phys. **A 709**, 3 (2002)
  
44. *Structure of the  $^{89}\text{Zr}$  via the High-Resolution  $^{91}\text{Zr}(p, t)^{89}\text{Zr}$  Reaction and Shell-Model Calculations*  
P.Guazzoni, L.Zetta, J.N.Gu, A.Vitturi, Y.Eisermann, G.Graw, R.Hertenberger,  
M.Jaskola  
Nucl. Phys. **A 697**, 611 (2002)
  
45. *High Resolution Measurement of the  $^{116}\text{Sn}(p, t)^{114}\text{Sn}$  Reaction at 26 MeV*  
M.Jaskola, P.Guazzoni, L.Zetta, A.Covello, A.Gargano, Y.Eisermann, G.Graw, R.Hertenberger  
Acta Phys. Pol. **B 33**, 363 (2002)
  
46. *New  $0+$  states in  $^{158}\text{Gd}$*   
S.R.Lesher, A.Aprahamian, L.Trache, A.Oros-Peusquens,  
S.Deyliz, A.Gollwitzer, R.Hertenberger, B.D.Valnion, G.Graw  
Phys. Rev. **C 66**, 051305 (2002)
  
47. *Nuclear Structure of  $^{181}\text{Hf}$  Studied in  $(n, \gamma)$  and  $(d, p)$  Reactions*  
P.Prokofjevs, L.I.Simonova, V.A.Bondarenko, J.Berzins, N.Kramere, T.von Egidy,  
H.-F.Wirth, A.Metz, G.Graw, L.Rubacek,  
J.Honzatko, I.Tomandl, Y.Eisermann, R.Hertenberger  
Yad.Fiz. **65**, 631 (2002);  
Phys. Atomic Nuclei **65**, 599 (2002)
  
48. *Low-K Two-Quasiparticle States in  $^{180}\text{Ta}$*   
T.Wendel, J.Gröger, C.Günther, A.I.Levon, P.E.Garrett, L.Genilloud, J.Jolie, J.Kern,  
S.Mannanal, N.Warr, F.Käppeler, G.Graw, R.Hertenberger, M.Loewe, M.Wurkner  
Phys. Rev. **C 65**, 014309 (2002)
  
49. *Supersymmetry in the Spectra of Complex Atomic Nuclei*  
G.Graw, A.Metz, R.Hertenberger, Y.Eisermann, H.F.Wirth

Czech. J. Phys. **52**, Suppl. A (2002)

50. *Towards Complete Spectroscopy of  $^{193}\text{Os}$*   
Y. Eisermann, G. Graw, A. Metz, R. Hertenberger, H.-F. Wirth  
Czech. J. Phys. **52**, Suppl. A (2002)
51. *Low- $K$  two-quasiparticle states in  $^{180}\text{Ta}$*   
T. Wendel, J. Gröger, C. Günther, A. I. Levon, P. E. Garrett, L. Genilloud, J. Jolie, J. Kern, S. Mannanal, N. Warr, F. Käppeler, G. Graw, R. Hertenberger, M. Loewe, M. Würkner.  
Phys. Rev. **C 65**, 014309 (2002).
52. *High Resolution Measurement of the  $^{116}\text{Sn}(p,t)^{114}\text{Sn}$  Reaction at 26 MeV*  
M. Jaskola, P. Guazzoni, L. Zetta, A. Covello, A. Gargano, Y. Eisermann, G. Graw, R. Hertenberger.  
Acta Phys. Pol. **B 33**, 363 (2002).
53. *Structure of the  $^{89}\text{Zr}$  via the high-resolution  $^{91}\text{Zr}(p,t)^{89}\text{Zr}$  reaction and shell-model calculations*  
P. Guazzoni, L. Zetta, J. N. Gu, A. Vitturi, Y. Eisermann, G. Graw, R. Hertenberger, M. Jaskola.  
Nucl. Phys. **A 697**, 611 (2002).
54. B. D. Valnion, V. Yu. Ponomarev, Y. Eisermann, A. Gollwitzer, R. Hertenberger, A. Metz, P. Schiemenz, G. Graw.  
*Excitation of  $^{208}\text{Pb}$  in light ion induced reactions and the two octupole phonon multiplet .*  
B. D. Valnion, V. Yu. Ponomarev, Y. Eisermann, A. Gollwitzer, R. Hertenberger, A. Metz, P. Schiemenz, G. Graw.  
Phys. Rev. **C 63**, 024318 (2001).
55. *Detailed Spectroscopy in the Superdeformed Second Minimum of  $^{240}\text{Pu}$*   
P. G. Thirolf, D. Gassmann, D. Habs, M. J. Chromik, Y. Eisermann, G. Graw, R. Hertenberger, H. J. Maier, A. Metz, P. Reiter, T.+Faestermann, A. Krasznahorkay, M. Hunyadi, M. Csatlos, J. Gulyas, Z. Mate, D. Pansegrau, H. Scheit, D. Schwalm, E. Mergel, H. Hubel, A. Gorgen.  
Acta Phys. Hung. N.S. **13**, 93 (2001) .
56. *Hyperdeformation and Clusterization in the Actinide Region*  
A. Krasznahorkay, D. Habs, M. Hunyadi, D. Gassmann, M. Csatlos, Y. Eisermann, T. Faestermann, G. Graw, J. Gulyas, R. Hertenberger, H. J. Maier, Z. Mate, A. Metz, J. Ott, P. G. Thirolf, S. Y. van der Werf.  
Acta Phys. Hung. N.S. **13**, 111 (2001).

57. *Superdeformation, Hyperdeformation and Clustering in the Actinide Region.*  
 A. Krasznahorkay, D. Habs, M. Hunyadi, D. Gassmann, M. Csatos, Y. Eisermann, T. Faestermann, G. Graw, J. Gulyas, R. Hertemberger, H. J. Maier, Z. Mate, A. Metz, J. Ott, P. Thirolf, S. Y. van der Werf.  
 Acta Phys. Pol. **B 32** 657 (2001).
58. *Excited superdeformed  $K^\pi = 0^+$  rotational bands in  $\beta$ -vibrational fission resonances of  $^{240}\text{Pu}$*   
 M. Hunyadi, D. Gassmann, A. Krasznahorkay, D. Habs, P. G. Thirolf, M. Csatos, Y. Eisermann, T. Faestermann, G. Graw, J. Gulyas, R. Hertemberger, H. J. Maier, Z. Mate, A. Metz, M. J. Chromik  
 Phys. Lett. **B 505**, 27 (2001).
59. *Superdeformed Rotational Bands in  $^{240}\text{Pu}$ .*  
 M. Hunyadi, D. Gassmann, A. Krasznahorkay, D. Habs, M. Csatos, Y. Eisermann, T. Faestermann, G. Graw, J. Gulyas, R. Hertemberger, H. J. Maier, Z. Mate, A. Metz, P. Thirolf, M. Chromik, S. Y. van der Werf.  
 Acta Phys. Pol. **B 32**, 699 (2001).
60. *One neutron transfer reaction spectroscopy of  $^{195}\text{Pt}$  as a detailed test of the  $U(6/12)$  supersymmetry.*  
 A. Metz, Y. Eisermann, A. Gollwitzer, R. Hertemberger, B. D. Valnion, G. Graw, J. Jolie.  
 Phys. Rev. **C 61**, 064313 (2000).
61. *Low-lying states of  $^{121}\text{Sb}$  studied in the  $^{123}\text{Sb}(p,t)$  reaction.*  
 P. Guazzoni, M. Jaskola, V. Yu. Ponomarev, L. Zetta, G. Graw, R. Hertemberger, G. Staudt.  
 Phys. Rev. **C 62**, 054312 (2000).
62. *High resolution measurement of the  $^{91}\text{Zr}(p,t)^{89}\text{Zr}$  reaction.*  
 P. Guazzoni, L. Zetta, M. Jaskola, J. N. Gu, A. Vitturi, Y. Eisermann, G. Graw, R. Hertemberger, G. Staudt.  
 Acta Phys. Pol. **B 31**, 417 (2000).
63. *Nuclear structure of  $^{196}\text{Au}$ : More evidence for its supersymmetric description.*  
 J. Gröger, J. Jolie, R. Krücken, C. W. Beausang, M. Caprio, R. F. Casten, J. Cederkall, J. R. Cooper, F. Corminboeuf, L. Genilloud, G. Graw, C. Günther, M. de Hoo, A. I. Levon, A. Metz, J. R. Novak, N. Warr, T. Wendel.  
 Phys. Rev. **C 62**, 064304 (2000).
64. *Study of  $^{119}\text{Te}$  with the  $(\vec{d},t)$  reaction.*  
 D. Bucurescu, T. von Egidy, H.-F. Wirth, N. Marginean, U. Köster, G. Graw, A. Metz, R. Hertemberger, Y. Eisermann.  
 Nucl. Phys. **A 674**, 11 (2000).



65. *Study of  $^{121}\text{Te}$  with the  $(\vec{d}, t)$  reaction.*  
 D. Bucurescu, T. von Egidy, H.-F. Wirth, N. Marginean, U. Köster, W. Schauer, I. Tomandl, G. Graw, A. Metz, R. Hertenberger, Y. Eisermann.  
 Nucl. Phys. **A 672**, 21 (2000).
66. *Study of  $^{122}\text{Te}$  with charged particle reactions.*  
 W. Schauer, C. Doll, T. von Egidy, R. Georgii, J. Ott, H.-F. Wirth, A. Gollwitzer, G. Graw, R. Hertenberger, B. Valnion, M. Grinberg, Ch. Stoyanov.  
 Nucl. Phys. **A 652**, 339 (1999).
67. *Evidence for the Existence of Supersymmetry in Atomic Nuclei.*  
 A. Metz, J. Jolie, G. Graw, R. Hertenberger, J. Gröger, C. Günther, N. Warr, Y. Eisermann.  
 Phys. Rev. Lett. **83**, 1542 (1999).
68. *Hyperdeformed Rotational Bands in  $^{234}\text{U}$ .*  
 A. Krasznahorkay, M. Hunyadi, M. Csatos, Y. Eisermann, T. Faestermann, D. Gassmann, G. Graw, J. Gulyas, D. Habs, R. Hertenberger, H. J. Maier, A. Metz, Z. Mate, J. Ott, P. Thirolf.  
 Acta Phys. Pol. **B 30**, 1467 (1999).
69. *On the excitation energy of the ground state in the third minimum of  $^{234}\text{U}$ .*  
 A. Krasznahorkay, D. Habs, M. Hunyadi, D. Gassmann, M. Csatos, Y. Eisermann, T. Faestermann, G. Graw, J. Gulyas, R. Hertenberger, H. J. Maier, Z. Mate, A. Metz, J. Ott, P. Thirolf, S. Y. van der Werf.  
 Phys. Lett. **B 461**, 15 (1999).
70. *Multi-Phonon Superdeformed States in  $^{240}\text{Pu}$ .*  
 M. Hunyadi, A. Krasznahorkay, M. Csatos, Y. Eisermann, T. Faestermann, D. Gassmann, G. Graw, J. Gulyas, D. Habs, R. Hertenberger, H. J. Maier, A. Metz, Z. Mate, J. Ott, P. Thirolf.  
 Acta Phys. Pol. **B 30**, 1263 (1999).
71. *Nuclear structure studies of  $^{125}\text{Te}$  with  $(n,\gamma)$ ,  $(d,p)$  and  $(^3\text{He},\alpha)$  reactions.*  
 J. Honzatko, I. Tomandl, V. Bondarenko, D. Bucurescu, T. von Egidy, J. Ott, W. Schauer, H.-F. Wirth, C. Doll, A. Gollwitzer, G. Graw, R. Hertenberger, B. D. Valnion.  
 Nucl. Phys. **A 645**, 331 (1999).
72. *Level Structure of  $^{120}\text{Sn}$ : High resolution  $(p,t)$  P. Guazzoni, M. Jaskola, L. Zetta, A. Covello, A. Gargano, Y. Eisermann, G. Graw, R. Hertenberger, A. Metz, F. Nuoffer, G. Staudt.*  
*reaction and shell model description.*  
 Phys. Rev. **C 60**, 054603 (1999).

73. *Beam formation at the Munich atomic beam source.*  
R. Hertenberger, Y. Eisermann, A. Hofmann, A. Metz, P. Schiemenz, S. Trieb, G. Graw.  
Rev. Sci. Instr. **69**, 750 (1998).
74. *Hyperdeformed States in the Third Minimum of the Fission Potential.*  
A. Krasznahorkay, M. Hunyadi, M. Csatlos, A. Balanda, A. Gollwitzer, G. Graw, J. Gulyas, D. Habs, R. Hertenberger, Z. Mate, H. J. Maier, D. Rudolph, P. Thierolf, J. Timar, B. D. Valnion.  
Acta Phys. Hung. N.S. **7**, 35 (1998).
75. *Experimental Evidence for Hyperdeformed States in U Isotopes.*  
A. Krasznahorkay, M. Hunyadi, M. N. Harakeh, M. Csatlos, T. Faestermann, A. Gollwitzer, G. Graw, J. Gulyas, D. Habs, R. Hertenberger, H. J. Maier, Z. Mate, D. Rudolph, P. Thierolf, J. Timar, B. D. Valnion.  
Phys. Rev. Lett. **80**, 2073 (1998).
76. *Single particle excitations in  $^{129}\text{Ba}$  from a  $(\vec{d}, t)$  reaction study.*  
D. Bucurescu, J. Ott, W. Schauer, T. von Egidy, A. Gollwitzer, R. Hertenberger, A. Metz, G. Graw, B. D. Valnion, R. Meunier, D. Le Du.  
Nucl. Phys. **A 630**, 643 (1998).
77. *A study of the  $^{90}\text{Zr}(p,t)^{88}\text{Zr}$  reaction.*  
M. Jaskola, P. Guazzoni, L. Zetta, J. N. Gu, A. Vitturi, G. Graw, R. Hertenberger, B. Valnion, F. Nuoffer, G. Staudt.  
Acta Phys. Pol. **B 29**, 385, (1998).
78. *High resolution  $(p, d)$  and  $(\vec{d}, t)$  studies of  $^{196}\text{Au}$  and a test of the IBM supersymmetry concept*  
A. Metz, A. Gollwitzer, G. Graw, J. Gröger, C. Günther, R. Hertenberger, J. Jolie, B. D. Valnion, N. Warr.  
Acta Phys. Pol. **B 29**, 425, (1998).
79. *Study of Strength Distribution in  $^{153}\text{Sm}$  via Transfer Reactions*  
N. Blasi, A. Gollwitzer, R. de Leo, S. Deylitz, G. Graw, S. Micheletti, M. Pignanelli, B. D. Valnion.  
Acta Phys. Hung. N.S. **7**, 313 (1998).
80. *Spectroscopy of  $^{125}\text{Te}$  with  $(n, \gamma)$ ,  $(d, p)$  and  $(^3\text{He}, \alpha)$  reactions*  
J. Honzatko, I. Tomandl, V. Bondarenko, J. Ott, T. von Egidy, W. Schauer, C. Doll, H.-F. Wirth, A. Gollwitzer, G. Graw, R. Hertenberger, B. Valnion  
Fizika (Zagreb) **B 7**, 87 (1998).
81. *Study of the  $^{90}\text{Zr}(\vec{p}, \alpha)^{87}\text{Y}$  reaction at 22 MeV.*  
P. Guazzoni, M. Jaskola, L. Zetta, J. N. Gu, A. Vitturi, G. Graw, R. Hertenberger,

- P. Schiemenz, B. Valnion, U. Atzrott, G. Staudt.  
Eur. Phys. J. **A 1**, 365 (1998).
82. *Experimental study of the deformed nucleus  $^{153}\text{Sm}$  via  $(\vec{d}, t)$  and average resonance capture as a test case for the multiorbit interacting boson fermion model*  
A. Gollwitzer, R. Hertenberger, A. Metz, P. Schiemenz, B. D. Valnion, G. Graw, N. Blasi, S. Lucchini, S. Micheletti, M. Pignanelli, R. de Leo, R. L. Gill, C. Hategan, R. F. Casten  
Phys. Rev. **C 57**, R 2781 (1998).
83. *The HERMES Polarized Hydrogen and Deuterium Gas Target in the HERA Electron Storage Ring*  
HERMES Collaboration, A. Airapetian et al,  
Nucl. Instr. and Meth. **A 540** 68 (2005)
84. *Hard Exclusive Electroproduction of  $\pi^+\pi^-$  Pairs*  
HERMES Collaboration, A. Airapetian et al,  
Physics Letters **B 599** 212 (2004)
85. *Nuclear Polarization of Molecular Hydrogen Recombined on a Non-metallic Surface*  
HERMES Collaboration, A. Airapetian et al,  
Eur. Phys. J.**D 29** 21 (2004)
86. *Evidence for a Narrow  $|S| = 1$  Baryon State at a Mass of 1528 MeV in Quasi-real Photoproduction*  
HERMES Collaboration, A. Airapetian et al,  
Physics Letters **B 585** 213 (2004)
87. *Flavor Decomposition of the Sea Quark Helicity Distributions in the Nucleon from Semi-inclusive Deep-inelastic Scattering*  
HERMES Collaboration, A. Airapetian et al,  
Phys. Rev. Lett. **92** 012005 (2004)
88. *Evidence for Quark-Hadron Duality in the Proton Spin Asymmetry  $A_1$*   
HERMES Collaboration, A. Airapetian et al,  
Phys. Rev. Lett. **90** 092002  
(2003)
89. *Quark Fragmentation to  $\pi^{+/-}, \pi^0, K^{+/-}, p$  and  $pbar$  in the Nuclear Environment*  
HERMES Collaboration, A. Airapetian et al,  
Phys. Lett. **B 577** 37-46 (2003)
90. *Double-spin Asymmetries in the Cross Section of Diffractive  $\rho^0$  and  $\phi$  Production at Intermediate Energies*  
HERMES Collaboration, A. Airapetian et al,

- Eur. Phys. J. C **29** 171 - 179 (2003)
91. *Measurement of Single-spin Azimuthal Asymmetries in Semi-inclusive Electroproduction of Pions and Kaons on a Longitudinally Polarized Deuterium Target*  
HERMES Collaboration, A. Airapetian et al,  
Phys. Lett. **B 562** 182 - 192 (2003)
  92. *The  $Q^2$  Dependence of the Generalized Gerasimov-Drell-Hearn Sum Rule for the Proton and the Neutron*  
HERMES Collaboration, A. Airapetian et al,  
EPJ C **26** 527-538 (2003)
  93. *Single-spin Azimuthal Asymmetries in Electroproduction of Exclusive  $\pi^+$*   
HERMES Collaboration, A. Airapetian, et al.,  
Phys. Lett. **B 535** 85-92 (2002)
  94. *Measurement of the Beam-Spin Azimuthal Asymmetry associated with Deeply-Virtual Compton Scattering*  
HERMES Collaboration, A. Airapetian et al.,  
Phys. Rev. Lett. **87** 182001 (2001)
  95. *Multiplicity of Charged and Neutral Pions in Deep-inelastic Scattering of 27.5 GeV Positrons*  
HERMES Collaboration, A. Airapetian et al,  
Eur.Phys.J. C **21** 599-606 (2001)
  96. *Single Spin Azimuthal Asymmetry in Electroproduction of Neutral Pions in Semi-inclusive Deep Inelastic Scattering*  
HERMES Collaboration, A. Airapetian et al,  
Phys.Rev. **D 64** 097101 (2001)
  97. *Hadron Formation in Deep-Inelastic Positron Scattering from  $^{14}\text{N}$  and  $^2\text{H}$*   
HERMES Collaboration, A. Airapetian et al,  
Eur. Phys. J. C **20**) 479-486 (2001)
  98. *Measurement of Longitudinal Spin Transfer to Lambda Hyperons in Deep Inelastic Lepton Scattering*  
HERMES Collaboration, A. Airapetian et al,  
Phys.Rev. **D 64** 112005 (2001)
  99. *Double-Spin Asymmetry in the Cross Section for Exclusive  $\rho^0$  Production in Lepton-Nucleon Scattering*  
HERMES Collaboration, A. Airapetian et al,  
Phys. Lett. **B 513** 301-310 (2001)

100. *The  $Q^2$ -dependence of the Generalised Gerasimov Drell Hearn Integral for the Proton*  
HERMES Collaboration, A. Airapetian et al,  
Phys. Lett. **B 494** 1-8 (2000)
101. *Exclusive Leptoproduction of  $\rho^0$  Mesons on Hydrogen at Intermediate  $W$  Values*  
HERMES Collaboration, A. Airapetian et al,  
Eur. Phys. Jour. **C 17** 389-398 (2000)
102. *Measurement of Angular Distributions and  $R = \sigma_L/\sigma_T$  in Diffractive Electroproduction of  $\rho^0$  Mesons*  
HERMES Collaboration, K. Ackerstaff et al,  
Eur. Phys. Jour. **C 18** 303-316 (2000)
103. *Observation of a Single-Spin Azimuthal Asymmetry in Semi-Inclusive Pion Electro-Production*  
HERMES Collaboration, A. Airapetian et al,  
Phys. Rev. Lett. **84** 4047-4051 (2000)
104. *Nuclear Effects on  $R=\sigma_L/\sigma_T$  in Deep Inelastic Scattering*  
HERMES Collaboration, K. Ackerstaff et al,  
Phys. Lett. **B 475** (2000) 386-394  
und Erratum  
Phys. Lett. **B 567** 339 (2003)
105. *Measurement of the Spin Asymmetry in the Photoproduction of Pairs of High- $p_T$  Hadrons at HERMES*  
HERMES Collaboration, A. Airapetian et al,  
Phys. Rev. Lett. **84** 2584-2588 (2000)
106. *Flavor Decomposition of the Polarized Quark Distributions in the Nucleon from Inclusive and Semi-Inclusive Deep-inelastic Scattering*  
HERMES Collaboration, K. Ackerstaff et al,  
Phys. Lett. **B 464** (1999)
107. *Observation of a Coherence Length Effect in Exclusive  $\rho^0$  Electroproduction*  
HERMES Collaboration, K. Ackerstaff et al,  
Phys. Rev. Lett. **82** 3025-3029 (1999)
108. *Beam-Induced Nuclear Depolarisation in a Gaseous Polarised Hydrogen Target*  
HERMES Collaboration, K. Ackerstaff et al.,  
Phys. Rev. Lett. **82** 1164-1168 (1999)
109. *Determination of the Deep Inelastic Contribution to the Generalised Gerasimov Drell Hearn Integral for the Proton and Neutron*

- HERMES Collaboration, K. Ackerstaff et al,  
Phys. Lett. **B 444**531-538 (1998)
110. *Measurement of the Proton Spin Structure Function  $g_{1p}$  with a Pure Hydrogen Target*  
HERMES Collaboration, A. Airapetian et al,  
Phys. Lett. **B 442** 484-492 (1998)
111. *The Flavor Asymmetry of the Light Quark Sea from Semi-inclusive Deep-inelastic Scattering*  
HERMES Collaboration, K. Ackerstaff et al,  
Phys. Rev. Lett. **81** 5519-5523 (1998)
112. *The HERMES Spectrometer*  
HERMES Collaboration, K. Ackerstaff et al.  
, Nucl. Instr. and Meth. **A417** 230 (1998)
113. *A gas analyzer for the internal polarized target of the HERMES experiment*  
HERMES TARGET GROUP, Ch. BAUMGARTEN et al  
Nucl. Instrum. and Meth. **A 508** 268 (2003)
114. *The HERMES polarized atomic beam source*  
*HERMES TARGET GROUP, A. Nass et al*  
Nucl. Instrum. and Meth. **A 505** 633 (2003)
115. *The storage cell of the polarized internal H/D gas target of the HERMES experiment at HERA*  
HERMES TARGET GROUP, Ch. BAUMGARTEN et al  
Nucl. Instrum. and Meth. **A 496** 277 (2003)
116. *Measurements of atomic recombination in the HERMES polarized hydrogen and deuterium storage cell target*  
HERMES TARGET GROUP, Ch. BAUMGARTEN et al  
Nucl. Instrum. and Meth. **A 496** 263 (2003)
117. *Time-of-Flight Measurements in Atomic Beam Devices using Adiabatic High Frequency Transitions and Sextupole Magnets*  
*HERMES TARGET GROUP, Ch. BAUMGARTEN et al*  
Nucl. Instrum. and Meth. **A 489** (2002)
118. *An Atomic Beam Polarimeter to Measure the Nuclear Polarisation in the HERMES Gaseous Polarized Hydrogen and Deuterium Target*  
HERMES TARGET GROUP, Ch. BAUMGARTEN et al  
Nucl. Instrum. and Meth. **A 482** 606 (2002)

119. *Molecular flow and wall collision age distributions*  
HERMES TARGET GROUP, Ch. BAUMGARTEN et al  
Eur.Phys.J. **D 18** 37-49 (2002)