

## Ronald Schwengner Publications

### PUBLICATIONS IN REVIEWED JOURNALS:

185. Evolution of low-lying M1 modes in germanium isotopes  
S. Frauendorf, R. Schwengner  
Submitted to Physical Review C.
184. Low-energy magnetic dipole strength in cadmium isotopes  
R. Schwengner  
Submitted to Physical Review C.
183. Photoexcitation of  $^{76}\text{Ge}$   
R. Schwengner, R. Massarczyk, K. Schmidt, K. Zuber, R. Beyer, D. Bemmerer, S. Hammer, A. Hartmann, T. Hensel, H. Hoffmann, A.R. Junghans, T. Kögler, S.E. Müller, M. Pichotta, S. Turkat, J.A.B. Turko, S. Urlaß, A. Wagner  
Submitted to Physical Review C.
182. First evidence of enhanced low-energy  $\gamma$ -ray strength from thermal neutron capture data  
L. Crespo Campo, R.B. Firestone, B.A. Brown, M. Guttormsen, R. Schwengner  
arXiv:1904.04878, submitted to Physical Review.
181. The gamma-ray strength function of  $^{89}\text{Y}$  and  $^{90}\text{Y}$   
G.M. Tveten, T. Renstrøm, A.C. Larsen, H. Utsunomiya, K. Stopani, S. Belyshev, M. Guttormsen, T. Ari-izumi, F.L. Bello Garrote, D.L. Bleuel, Y. Byun, T.K. Eriksen, D. Filipescu, F. Giacoppo, I. Gheorghe, S. Goriely, A. Görgen, S. Harissopulos, S. Katayama, M. Klintefjord, W. Luo, Y.-W. Lui, E. Sahin, R. Schwengner, S. Siem, D. Takenaka, T.G. Tornyi, A.V. Voinov, M. Wiedeking  
arXiv:1804.08109, submitted to Physical Review C.
180. Measurement of the  $^2\text{H}(p, \gamma)^3\text{He}$  S-factor at 265 - 1094 keV  
S. Turkat, S. Hammer, E. Masha, S. Akhmadaliev, D. Bemmerer, M. Grieger, T. Hensel, J. Julin, M. Koppitz, F. Ludwig, C. Möckel, S. Reinicke, R. Schwengner, K. Stöckel, T. Szücs, L. Wagner, K. Zuber  
Physical Review C 103, 045805 (2021).

179. Electric and magnetic dipole strength in  $^{66}\text{Zn}$   
R. Schwengner, R. Massarczyk, M. Scheck, W. Tornow, G. Battaglia, T. Beck, D. Bemmerer, N. Benouaret, R. Beyer, M. Butterling, F. Fiedler, S.W. Finch, C. Fransen, U. Friman-Gayer, A. Frotscher, R. Gonzalez, M. Grieger, A. Hartmann, T. Hensel, E. Hoemann, H. Hoffmann, R.V.F. Janssens, S. Johnson, M.D. Jones, A.R. Junghans, N. Kelly, J. Kleemann, Krishichayan, D. R. Little, F. Ludwig, S. E. Müller, D. O'Donnell, O. Papst, E. Pirovano, J. Sinclair, M.P. Takács, S. Turkat, S. Ullaß, A. Wagner, V. Werner, O. Wieland, J. Wilhelmy  
Physical Review C 103, 024312 (2021).
178. Photo-neutron cross-section of  $^{nat}\text{Dy}$  in the bremsstrahlung end-point energies of 12, 14, 16, 65, and 75 MeV  
H. Naik, G.N. Kim, R. Schwengner, Wooyoung Jang, N.T. Hien, K. Kim, S.G. Shin, Y. Kye, A. Junghans, A. Wagner, M.-H. Cho  
European Physical Journal A 56, 264 (2020).
177. The dipole response of  $^{87}\text{Rb}$  and its impact on the  $^{86}\text{Rb}(n,\gamma)^{87}\text{Rb}$  cross section  
J. Wilhelmy, M. Müscher, G. Rusev, R. Schwengner, R. Beyer, M. Bhike, P. Erbacher, F. Fiedler, U. Friman-Gayer, J. Glorius, R. Greifenhagen, S. Hammer, T. Hensel, J. Isaak, A.R. Junghans, Krishichayan, B. Löher, S.E. Müller, N. Pietralla, S. Reinicke, D. Savran, P. Scholz, K. Sonnabend, T. Szücs, M. Tamkas, W. Tornow, S. Turkat, A. Wagner, A. Zilges  
Physical Review C 102, 044327 (2020).
176. High-sensitivity investigation of low-lying dipole strengths in  $^{120}\text{Sn}$   
M. Müscher, J. Wilhelmy, R. Massarczyk, R. Schwengner, M. Grieger, J. Isaak, A.R. Junghans, T. Kögler, F. Ludwig, D. Savran, D. Symochko, M.P. Takács, M. Tamkas, A. Wagner, A. Zilges  
Physical Review C 102, 014317 (2020).
175. Electric and magnetic dipole strength in  $^{54}\text{Fe}$   
R. Schwengner, R. Massarczyk, R. Beyer, M. Bhike, B.A. Brown, Krishichayan, K. Sieja, W. Tornow, D. Bemmerer, M. Butterling, V. Derya, M. Dietz, F. Fiedler, U. Friman-Gayer, A. Frotscher, M. Grieger, A. Hartmann, A.R. Junghans, T. Kögler, F. Ludwig, B. Lutz, H. Pai, T. Szücs, M.P. Takács, A. Wagner  
Physical Review C 101, 064303 (2020).
174. Firm spin and parity assignment for high-lying low-spin levels in stable Si isotopes  
J. Sinclair, M. Scheck, S.W. Finch, Krishichayan, U. Friman-Gayer, W. Tornow, G. Battaglia, T. Beck, R. Chapman, M.M.R. Chishti, Ch. Fransen, R. Gonzales, E. Hoemann, J. Isaak, R.V.F. Janssens, D.A. Jaroszynski, S. Johnson, M.D. Jones, J.M. Keatings, N. Kelly, J. Kleemann, D. Little, B. Löher, K.R. Mashtakov, M. Müscher, D. O'Donnell, O. Papst, E.E. Peters, D. Savran, M. Schilling, R. Schwengner, P. Spagnoletti, M. Spieker, V. Werner, J. Wilhelmy, O. Wieland, S.W. Yates, A. Zilges  
European Physical Journal A 56, 105 (2020).

173. First application of the Oslo method in inverse kinematics - Nuclear level densities and  $\gamma$ -ray strength functions of  $^{87}\text{Kr}$   
V.W. Ingeberg, S. Siem, M. Wiedeking, K. Sieja, D.L. Bleuel, C.P. Brits, T.D. Bucher, T.S. Dinoko, J.L. Easton, A. Gorgen, M. Guttormsen, P. Jones, B.V. Kheswa, N.A. Khumalo, A.C. Larsen, E.A. Lawrie, J.J. Lawrie, S.N.T. Majola, K.L. Malatji, L. Makhathini, B. Maqabuka, D. Negi, S.P. Noncolela, P. Papka, E. Sahin, R. Schwengner, G.M. Tveten, F. Zeiser, B.R. Zikhali  
European Physical Journal A 56, 68 (2020).
172. IAEA Photonuclear Data Library 2019  
T. Kawano, Y.S. Cho, P. Dimitriou, D. Filipescu, N. Iwamoto, V. Plujko, X. Tao, H. Utsunomiya, V. Varlamov, R. Xu, R. Capote, I. Gheorghe, O. Gorbachenko, Y.L. Jin, T. Renstrom, K. Stopani, Y. Tian, G.M. Tveten, J.M. Wang, T. Belgya, R. Firestone, S. Goriely, J. Kopecky, M. Krticka, R. Schwengner, S. Siem, M. Wiedeking  
Nuclear Data Sheets 163, 109 (2020).
171. Exploring enhanced low-energy magnetic dipole strength in photon scattering  
R. Schwengner, G. Rusev  
Physical Review C 100, 054320 (2019).
170. Reference database for photon strength functions  
S. Goriely, P. Dimitriou, M. Wiedeking, T. Belgya, R. Firestone, J. Kopecky, M. Krticka, V. Plujko, R. Schwengner, S. Siem, H. Utsunomiya, S. Hilaire, S. Peru, Y.S. Cho, S.M. Filipescu, N. Iwamoto, T. Kawano, V. Varlamov, R. Xu  
European Physical Journal A 55, 172 (2019).
169. Nuclear level densities and gamma-ray strength functions in  $^{147,149}\text{Sm}$  isotopes  
F. Naqvi, A. Simon, M. Guttormsen, R. Schwengner, S. Frauendorf, C.S. Reingold, J.T. Burke, N. Cooper, R.O. Hughes, S. Ota, A. Saastamoinen  
Physical Review C 99, 054331 (2019).
168. Fast-neutron-induced fission cross section of  $^{242}\text{Pu}$  measured at nELBE  
T. Kogler, A.R. Junghans, R. Beyer, M. Dietz, Ch.E. Dullmann, K. Eberhardt, Ch. Lorenz, S.E. Muller, R. Nolte, T.P. Reinhardt, K. Schmidt, J. Runke, R. Schwengner, M. Takacs, A. Vascon, A. Wagner  
Physical Review C 99, 024604 (2019).
167. Dipole strength distribution in  $^{206}\text{Pb}$  for the evaluation of the neutron-capture cross section of  $^{205}\text{Pb}$   
T. Shizuma, N. Iwamoto, A. Makinaga, R. Massarczyk, R. Schwengner, R. Beyer, D. Bemmerer, M. Dietz, A. Junghans, T. Kogler, F. Ludwig, S. Reinicke, S. Schulz, S. Urla, A. Wagner  
Physical Review C 98, 064317 (2018).

166. Experimental assessment of a flat sandwich-like self-powered detector for nuclear measurements in ITER test blanket modules  
P. Raj, M. Angelone, T. Döring, K. Eberhardt, U. Fischer, A. Klix, R. Schwengner  
IEEE Transactions on Nuclear Science 65, 2385 (2018).
165. Compact high-energy x-ray spectrometer based on forward Compton scattering for high intensity laser plasma experiments  
S. Singh, R. Versaci, A. Laso Garcia, L. Morejon, A. Ferrari, M. Molodtsova, R. Schwengner, D. Kumar, T. Cowan  
Review of Scientific Instruments 89, 085118 (2018).
164. The neutron transmission of  $^{nat}\text{Fe}$ ,  $^{197}\text{Au}$  and  $^{nat}\text{W}$   
R. Beyer, A.R. Junghans, P. Schillebeeckx, I. Sirakov, T.-Y. Song, D. Bemmerer, R. Capote, A. Ferrari, A. Hartmann, R. Hannaske, J. Heyse, H.I. Kim, J.W. Kim, T. Kögler, C.W. Lee, Y.-O. Lee, R. Massarczyk, S. E. Müller, T.P. Reinhardt, M. Röder, K. Schmidt, R. Schwengner, T. Szücs, M.P. Takacs, A. Wagner, L. Wagner, S.-C. Yang  
European Physical Journal A 54, 81 (2018).
163. The  $\gamma$ -ray angular distribution in fast neutron inelastic scattering from iron  
R. Beyer, M. Dietz, D. Bemmerer, A.R. Junghans, T. Kögler, R. Massarczyk, S. Müller, K. Schmidt, R. Schwengner, T. Szücs, M. Takacs, A. Wagner  
European Physical Journal A 54, 58 (2018).
162. Astrophysical  $S$ -factor of the  $^{14}\text{N}(p, \gamma)^{15}\text{O}$  reaction at 0.4 – 1.3 MeV  
L. Wagner, S. Akhmadaliev, M. Anders, D. Bemmerer, A. Cacioli, St. Gohl, M. Grieger, A. Junghans, M. Marta, F. Munnik, T.P. Reinhardt, S. Reinicke, M. Röder, K. Schmidt, R. Schwengner, M. Serfling, M.P. Takacs, T. Szücs, A. Vomiero, A. Wagner, K. Zuber  
Physical Review C 97, 015801 (2018).
161. Nuclear-physics experiments at the bremsstrahlung facility  $\gamma\text{ELBE}$   
R. Schwengner, A. Wagner  
Nuclear Physics News 27, 23 (2017).
160. EXILL - a high-efficiency, high-resolution setup for  $\gamma$ -spectroscopy at an intense cold neutron beam facility  
M. Jentschel, A. Blanc, G. de France, U. Köster, S. Leoni, P. Mutti, G. Simpson, T. Soldner, C. Ur, W. Urban, S. Ahmed, A. Astier, L. Augey, T. Back, P. Baczyk, A. Bajoga, D. Balabanski, T. Belgya, G. Benzoni, C. Bernards, D.C. Biswas, G. Bocchi, S. Bottoni, R. Britton, B. Bruyneel, J. Burnett, R.B. Cakirli, R. Carroll, W. Catford, B. Cederwall, I. Celikovic, N. Cieplicka-Orynczak, E. Clement, N. Cooper, F. Crespi, M. Csatlos, D. Curien, M. Czerwinski, L.S. Danu, A. Davies, F. Didierjean, F. Drouet, G. Duchene, C. Ducoin, K. Eberhardt, S. Erturky, L.M. Fraile, A. Gottardo, L. Grente, L. Grocutt, C. Guerrero, D. Guinet, A.-L. Hartig, C. Henrich, A. Ignatov, S. Ilieva, D. Ivanova, B.V. John, R. John, J. Jolie, S. Kisyov, M. Krticka, T. Konstantinopoulos, A. Korgul, A. Krasznahorkay, T. Kröll, J. Kurpeta, I. Kuti, S. Lalkovski, C. Larijani, R. Leguillon, R.

Lica, O. Litaize, R. Lozeva, C. Magron, C. Mancuso, E. Ruiz Martinez, R. Massarczyk, C. Mazzocchi, B. Melon, D. Mengoni, C. Michelagnoli, B. Million, C. Mokry, S. Mukhopadhyay, K. Mulholland, A. Nannini, D.R. Napoli, B. Olaizola, R. Orlandi, Z. Patel, V. Pazi, C. Petrache, M. Pfeiffer, N. Pietralla, Z. Podolyak, M. Ramdhane, N. Redon, P. Regan, J.M. Regis, D. Regnier, R.J. Oliver, M. Rudigier, J. Runke, T. Rzaca-Urban, N. Saed-Samii, M.D. Salsac, M. Scheck, R. Schwengner, L. Sengele, P. Singh, J. Smith, O. Stezowski, B. Szpak, T. Thomas, M. Thürauf, J. Timar, A. Tom, I. Tomandl, T. Tornyi, C. Townsley, A. Tuerler, S. Valenta, A. Vancaeynest, V. Vandone, J. Vanhoy, V. Vedia, N. Warr, V. Werner, D. Wilmsen, E. Wilson, T. Zerrouki, M. Zielinska  
Journal of Instrumentation 12, P11003 (2017).

159. Low-energy magnetic dipole radiation in open-shell nuclei

R. Schwengner, S. Frauendorf, B.A. Brown  
Physical Review Letters 118, 092502 (2017).

158. Dipole strength in  $^{80}\text{Se}$  for  $s$  process and nuclear transmutation of  $^{79}\text{Se}$

A. Makinaga, R. Massarczyk, M. Beard, R. Schwengner, H. Otsu, T. Al-Abdullah, M. Anders, D. Bemmerer, R. Hannaske, R. John, A.R. Junghans, S.E. Müller, M. Röder, K. Schmidt, A. Wagner  
Physical Review C 94, 044304 (2016).

157. Nature of low-lying electric dipole resonance states in  $^{74}\text{Ge}$

D. Negi, M. Wiedeking, E.G. Lanza, E. Litvinova, A. Vitturi, R.A. Bark, L.A. Bernstein, D.L. Bleuel, S. Bvumbi, T.D. Bucher, B.H. Daub, T.S. Dinoko, N. Erasmus, J.L. Easton, A. Gørgen, M. Guttormsen, P. Jones, B.V. Kheswa, N.A. Khumalo, A.C. Larsen, E.A. Lawrie, J.J. Lawrie, S.N.T. Majola, L.P. Masiteng, M.R. Nchodu, J. Ndayishimye, R.T. Newman, S.P. Noncolela, J.N. Orce, P. Papka, L. Pellegri, T. Renstrøm, D.G. Roux, R. Schwengner, O. Shirinda, S. Siem  
Physical Review C 94, 024332 (2016).

156. Completing the nuclear reaction puzzle of the nucleosynthesis of  $^{92}\text{Mo}$

G.M. Tveten, A. Spyrou, R. Schwengner, F. Naqvi, A.C. Larsen, T.K. Eriksen, F.L. Bello Garrote, L.A. Bernstein, D.L. Bleuel, L. Crespo Campo, M. Guttormsen, F. Giacoppo, A. Gørgen, T.W. Hagen, K. Hadynska-Klek, M. Klintefjord, B.S. Meyer, H.T. Nyhus, T. Renstrøm, S.J. Rose, E. Sahin, S. Siem, T.G. Tornyi  
Physical Review C 94, 025804 (2016).

155. Photo-neutron reaction cross-sections for  $^{nat}\text{Mo}$  in the bremsstrahlung end-point energies of 12-16 and 45-70 MeV

H. Naik, G.N. Kim, R. Kapote Noy, R. Schwengner, K. Kim, M. Zaman, S.G. Shin, Y. Gey, R. Massarczyk, R. John, A. Junghans, A. Wagner, M.-H. Cho  
European Physical Journal A 52, 195 (2016).

154. Low-energy enhancement in the  $\gamma$ -ray strength functions of  $^{73,74}\text{Ge}$   
T. Renstrøm, H.-T. Nyhus, H. Utsunomiya, R. Schwengner, S. Goriely, A.C. Larsen, D.M. Filipescu, I. Gheorghe, L.A. Bernstein, D.L. Bleuel, T. Glodariu, A. Gørgen, M. Guttormsen, T.W. Hagen, B.V. Kheswa, Y.-W. Lui, D. Negi, I.E. Ruud, T. Shima, S. Siem, K. Takahisa, O. Tesileanu, T.G. Tornyi, G.M. Tveten and M. Wiedeking  
Physical Review C 93, 064302 (2016).
153. Experimentally constrained  $(p, \gamma)^{89}\text{Y}$  and  $(n, \gamma)^{89}\text{Y}$  reaction rates relevant to the p-process nucleosynthesis  
A.C. Larsen, M. Guttormsen, R. Schwengner, D.L. Bleuel, S. Goriely, S. Harissopulos, F.L. Bello Garrote, L.A. Bernstein, Y. Byun, T.K. Eriksen, F. Giacoppo, A. Gørgen, T.W. Hagen, M. Klintefjord, H.T. Nyhus, T. Renstrøm, S.J. Rose, E. Sahin, S. Siem, T.G. Tornyi, G.M. Tveten, A.V. Voinov, M. Wiedeking  
Physical Review C 93, 045810 (2016).
152. Partial cross sections of the  $^{92}\text{Mo}(p, \gamma)$  reaction and the  $\gamma$  strength in  $^{93}\text{Tc}$   
J. Mayer, S. Goriely, L. Netterdon, S. Peru, P. Scholz, R. Schwengner, A. Zilges  
Physical Review C 93, 045809 (2016).
151. Measurement of isomeric ratios for  $^{89g,m}\text{Zr}$ ,  $^{91g,m}\text{Mo}$ , and  $^{97g,m}\text{Nb}$  in the bremsstrahlung end-point energies of 16 and 45 - 70 MeV  
H. Naik, G.N. Kim, R. Schwengner, K. Kim, M. Zaman, S.C. Yang, S.G. Shin, Y.-U. Kye, R. Massarczyk, R. John, A. Junghans, A. Wagner, A. Goswami, M.-H. Cho  
European Physical Journal A 52, 47 (2016).
150. Magnetic dipole excitations of  $^{50}\text{Cr}$   
H. Pai, T. Beck, J. Beller, R. Beyer, M. Bhike, V. Derya, U. Gayer, J. Isaak, Krishichayan, J. Kvasil, B. Löher, V.O. Nesterenko, N. Pietralla, G. Martinez-Pinedo, V.Yu. Ponomarev, P.-G. Reinhard, A. Repko, P.C. Ries, C. Romig, D. Savran, R. Schwengner, W. Tornow, V. Werner, J. Wilhelmy, A. Zilges, M. Zweidinger  
Physical Review C 93, 014318 (2016).
149. The role of magnetic dipole strength functions in  $^{114}\text{Cd}(\gamma, \gamma')$  and  $^{113}\text{Cd}(n, \gamma)$  reactions  
R. Massarczyk, G. Schramm, T. Belgya, R. Schwengner, R. Beyer, D. Bemmerer, Z. Elekes, E. Grosse, R. Hannaske, A.R. Junghans, Z. Kis, T. Kögler, C. Lorenz, K. Schmidt, L. Szentmiklosi, A. Wagner and J.L. Weil  
Physical Review C 93, 014301 (2016).
148. Fission product yield distribution in the 12, 14, and 16 MeV bremsstrahlung-induced fission of  $^{232}\text{Th}$   
H. Naik, G.N. Kim, R. Schwengner, K. Kim, R. John, R. Massarczyk, A. Junghans, A. Wagner, A. Goswami  
European Physical Journal A 51, 150 (2015).

147. Dipole strength distribution of  $^{74}\text{Ge}$   
R. Massarczyk, R. Schwengner, L.A. Bernstein, M. Anders, D. Bemmerer, R. Beyer, Z. Elekes, R. Hannaske, A.R. Junghans, T. Kögler, M. Röder, K. Schmidt, A. Wagner, L. Wagner  
Physical Review C 92, 044309 (2015).
146. Comparison of LSO and BGO block detectors for prompt gamma imaging in ion beam therapy  
F. Hueso-Gonzalez, A.K. Biegun, P. Dendooven, W. Enghardt, F. Fiedler, C. Golnik, K. Heidel, T. Kormoll, J. Petzoldt, K.E. Römer, R. Schwengner, A. Wagner, G. Pausch  
Journal of Instrumentation 10, 09015 (2015).
145. Determination of  $\gamma$ -ray widths in  $^{15}\text{N}$  using nuclear resonance fluorescence  
T. Szücs, D. Bemmerer, A. Caciolli, Zs. Fülöp, R. Massarczyk, C. Michelagnoli, T.P. Reinhardt, R. Schwengner, M.P. Takacs, C.A. Ur, A. Wagner, L. Wagner  
Physical Review C 92, 014315 (2015).
144. Pygmy resonances and radiative nucleon captures for stellar nucleosynthesis  
N. Tsoneva, S. Goriely, H. Lenske, R. Schwengner  
Physical Review C 91, 044318 (2015).
143. Low-energy behavior of E2 strength functions  
R. Schwengner  
Physical Review C 90, 064321 (2014).
142. Magnetic dipole strength in  $^{128}\text{Xe}$  and  $^{134}\text{Xe}$  in the spin-flip resonance region  
R. Massarczyk, G. Rusev, R. Schwengner, F. Dönau, C. Bhatia, M.E. Gooden, J.H. Kelley, A.P. Tonchev, W. Tornow  
Physical Review C 90, 054310 (2014).
141. Dipole strength of  $^{181}\text{Ta}$  for the evaluation of the  $^{180}\text{Ta}$  stellar neutron capture rate  
A. Makinaga, R. Massarczyk, R. Schwengner, M. Beard, F. Dönau, M. Anders, D. Bemmerer, R. Beyer, R. Hannaske, A. R. Junghans, M. Kempe, T. Kögler, M. Röder, K. Schmidt, A. Wagner  
Physical Review C 90, 044301 (2014).
140. Test of Compton camera components for prompt gamma imaging at the ELBE bremsstrahlung beam  
F. Hueso-Gonzalez, C. Golnik, M. Berthel, A. Dreyer, W. Enghardt, F. Fiedler, K. Heidel, T. Kormoll, H. Rohling, S. Schöne, R. Schwengner, A. Wagner, G. Pausch  
Journal of Instrumentation 9, 05002 (2014).

139. Photo-neutron reaction cross section for  $^{nat}\text{Zr}$  in the bremsstrahlung end-point energies of 12 - 16 and 45 - 70 MeV  
H. Naik, G.N. Kim, R. Schwengner, K. Kim, M. Zaman, S.C. Yang, M.W. Lee, S.G. Shin, Y. Gey, R. Massarczyk, R. John, A. Junghans, A. Wagner, A. Goswami, M.-H. Cho  
European Physical Journal A 50, 83 (2014).
138. Strength of the  $E_p = 1.842$  MeV resonance in the  $^{40}\text{Ca}(p, \gamma)^{41}\text{Sc}$  reaction revisited  
K. Schmidt, S. Akhmadaliev, M. Anders, D. Bemmerer, A. Caciolli, M. Dietz, Z. Elekes, A.R. Junghans, M.-L. Menzel, R. Schwengner, A. Wagner, K. Zuber  
Physical Review C 89, 045802 (2014).
137. Inelastic scattering of fast neutrons from excited states in  $^{56}\text{Fe}$   
R. Beyer, R. Schwengner, R. Hannaske, A.R. Junghans, R. Massarczyk, M. Anders, D. Bemmerer, A. Ferrari, A. Hartmann, T. Kögler, M. Röder, K. Schmidt, A. Wagner  
Nuclear Physics A 927, 41 (2014).
136. Nuclear deformation and neutron excess as competing effects for dipole strength in the pygmy region  
R. Massarczyk, R. Schwengner, F. Dönau, S. Frauendorf, M. Anders, D. Bemmerer, R. Beyer, C. Bhatia, E. Birgersson, M. Butterling, Z. Elekes, A. Ferrari, M.E. Gooden, R. Hannaske, A.R. Junghans, M. Kempe, J.H. Kelley, T. Kögler, A. Matic, M.L. Menzel, S. Müller, T.P. Reinhardt, M. Röder, G. Rusev, K.D. Schilling, K. Schmidt, G. Schramm, A.P. Tonchev, W. Tornow, A. Wagner  
Physical Review Letters 112, 072501 (2014).
135. Low-energy enhancement of magnetic dipole radiation  
R. Schwengner, S. Frauendorf, A.C. Larsen  
Physical Review Letters 111, 232504 (2013).
134. Neutron total cross section measurements of gold and tantalum at the nELBE photoneutron source  
R. Hannaske, Z. Elekes, R. Beyer, A. Junghans, D. Bemmerer, E. Birgersson, A. Ferrari, E. Grosse, M. Kempe, T. Kögler, M. Marta, R. Massarczyk, A. Matic, G. Schramm, R. Schwengner, A. Wagner  
European Physical Journal A 49, 137 (2013).
133. Photo-neutron reaction cross section for  $^{93}\text{Nb}$  in the end-point bremsstrahlung energies of 12 - 16 and 45 - 70 MeV  
H. Naik, G.N. Kim, R. Schwengner, K. Kim, M.W. Lee, M. Zaman, M. Tartari, M. Sahid, R. Massarczyk, R. John, A. Junghans, S.G. Shin, Y. Gey, A. Wagner, A. Goswami, M. Cho  
Nuclear Physics A 916, 168 (2013).



132. Cross-section measurements of the  $^{86}\text{Kr}(\gamma, n)$  reaction to probe the s-process branching at  $^{85}\text{Kr}$   
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E. Roeckl, J. Äystö, R. Borcea, P. Dendooven, M. Gierlik, M. Górska, H. Grawe, M. Hellström, A. Jokinen, M. Karny, Z. Janas, R. Kirchner, M. La Commara, P. Mayet, A. Niemenen, H. Penttilä, A. Płochocki, M. Rejmund, M. Sawicka, C. Schlegel, K. Schmidt, R. Schwengner  
ENPE 99 - Facing the next millennium, Seville, Spain, 21.6. - 26.6. 1999, AIP Conference Proceedings 495, 63 (1999).
12. Identification of excited states in  $^{68}\text{Se}$  with a EUROBALL Cluster detector CUBE  
S. Skoda, B. Fiedler, F. Becker, J. Eberth, S. Freund, T. Steinhardt, O. Stuch, O. Thelen, H.G. Thomas, L. Käubler, J. Reif, H. Schnare, R. Schwengner, T. Servene, G. Winter, V. Fischer, A. Jungclaus, D. Kast, K.P. Lieb, C. Teich, C. Ender, T. Hartlein, F. Köck, D. Schwalm, P. Baumann  
Contribution to the Conference Nuclear Structure '98, Gatlinburg, p. 123 (1998).
11. Magnetic Dipole Bands in  $^{82}\text{Rb}$ ,  $^{83}\text{Rb}$  and  $^{84}\text{Rb}$   
R. Schwengner, H. Schnare, S. Frauendorf, F. Dönau, L. Käubler, H. Prade, E. Grosse, A. Jungclaus, K.P. Lieb, C. Lingk, S. Skoda, J. Eberth, G. de Angelis, A. Gadea, E. Farnea, D.R. Napoli, C.A. Ur, G. Lo Bianco  
Proceedings of the Conference "ENAM98" on Exotic Nuclei and Atomic Masses, Bellaire, Michigan, June 23 - 27, 1998  
AIP Conference Proceedings 455, 594 (1998).
10. Development of segmented Ge detectors for future  $\gamma$ -ray arrays  
J. Eberth, H.G. Thomas, D. Weißhaar, F. Becker, B. Fiedler, S. Skoda, P. von Brentano, C. Gund, L. Palafox, P. Reiter, D. Schwalm, D. Habs, T. Servene, R. Schwengner, H. Schnare, W. Schulze, H. Prade, G. Winter, A. Jungclaus, C. Lingk, C. Teich, K.P. Lieb  
Proceedings of 4 $\pi$  High Resolution Gamma Ray Spectroscopy and Nuclear Structure, Erice, 16.9. - 24.9. 1996  
Progress in Particle and Nuclear Physics 38, 29 (1997).

9. Dipole excitations in  $^{122}\text{Te}$ ,  $^{126}\text{Te}$  and  $^{130}\text{Te}$   
R. Schwengner, W. Schauer, G. Winter, P. von Brentano, J. Eberth, J. Enders, T. von Egidy, M. Grinberg, R.-D. Herzberg, N. Huxel, L. Käubler, P. von Neumann-Cosel, N. Nicolay, J. Ott, N. Pietralla, H. Prade, S. Raman, J. Reif, A. Richter, C. Schlegel, H. Schnare, T. Servene, S. Skoda, C. Stoyanov, H.G. Thomas, I. Wiedenhöver, A. Zilges  
Zeitschrift für Physik A 358, 197 (1997).
8. Neutron-core excitations in  $^{86}_{36}\text{Kr}_{50}$   
J. Reif, G. Winter, R. Schwengner, H. Prade, H. Grawe, R. Schubart  
Physica Scripta T 56, 303 (1995).
7. In-beam study of  $^{109}\text{Sn}$   
L. Käubler, H. Prade, J. Reif, R. Schwengner, G. Winter, H. Grawe, J. Heese, H. Kluge, K.-H. Maier, R. Schubart, K.-M. Spohr  
Physica Scripta T 56, 266 (1995).
6. Shell-model states and collectivity in  $^{83}\text{Br}_{48}$  and  $^{85}\text{Rb}_{48}$   
R. Schwengner, G. Winter, J. Reif, H. Prade, L. Käubler, R. Wirowski, N. Nicolay, S. Albers, S. Eßer, P. von Brentano, W. Andrejtscheff  
Physica Scripta T 56, 126 (1995).
5. 1QP and 3QP bands in  $^{77}\text{Br}$   
J. Döring, L. Funke, R. Schwengner, G. Winter  
Proceedings of the Conference on Nuclear Structure of the Nineties, Oak Ridge, Tennessee, 1990, Vol. 1, p. 84 (1990).
4. Measurements of lifetimes of  $^{79}\text{Se}$  levels by the DSA method  
M.F. Kudoyarov, E.V. Kuzmin, A.A. Pasternak, L. Funke, J. Döring, R. Schwengner, G. Winter  
Program and Theses, Proc. 38th Ann. Conf. Nucl. Spectrosc. Struct. At. Nuclei, Baku, UdSSR, 12.4. - 14.4. 1988, p. 65 (1988).
3. Measurements of  $^{79}\text{Se}$  level lifetimes  
M.F. Kudoyarov, E.V. Kuzmin, A.A. Pasternak, L. Funke, J. Döring, R. Schwengner, G. Winter  
Program and Theses, Proc. 38th Ann. Conf. Nucl. Spectrosc. Struct. At. Nuclei, Baku, UdSSR, 12.4. - 14.4. 1988, p. 64 (1988).
2. Konferenz für Spektroskopie und Struktur des Atomkerns  
Charkov, UdSSR, 15.4. - 18.4. 1986, 1 Beitrag
1. In-beam study of  $^{78}\text{Se}$   
R. Schwengner, E. Will, J. Döring, L. Funke, P. Kemnitz, G. Winter, A.E. Sobov, M.F. Kudojarov, I.Kh. Lemberg, A.S. Mishin, A.A. Pasternak,

L.A. Rassadin, I.N. Chugunov

International Symposium on In-Beam Nuclear Spectroscopy, Debrecen, Ungarn, 14.5. - 18.5. 1984, ATOMKI Kozlem. 26, 10 (1984).

## TALKS:

80. Development of E1 and M1 strengths in  $^{54}\text{Fe}$  and  $^{66}\text{Zn}$   
Invited talk at the 7th Workshop on Nuclear Level Density and Gamma Strength, Oslo, Norway, 27.05. - 31.05. 2019.
79. Assessment of experimental gamma-ray strength functions  
Invited talk at the 3. Research Coordination Meeting on Updating Photonuclear Data Library and Generating a Reference Database for Photon Strength Functions, IAEA Headquarters, Vienna, Austria, 17.12. - 21.12. 2018.
78. New Phenomena in Gamma-Ray Strength Functions  
Invited talk at the Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Bochum, 26.02. - 02.03. 2018.
77. Evaluation of gamma-ray strength functions  
Invited talk at the 2. Research Coordination Meeting on Updating Photonuclear Data Library and Generating a Reference Database for Photon Strength Functions, IAEA Headquarters, Vienna, Austria, 16.10. - 20.10. 2017.
76. E1 and M1 excitations in  $^{54}\text{Fe}$  and low-energy M1 strength in open-shell Fe isotopes  
Invited talk at the 6th Workshop on Level Density and Gamma Strength, Oslo, Norway, 8.5. - 12.5. 2017.
75. E1 and M1 strength functions at low energy  
Invited talk at the International Conference on Nuclear Data for Science and Technology (ND2016), Brugge, Belgium, 11.9. - 16.9. 2016
74. Low-energy M1 strength from shell-model calculations  
Invited talk at the Workshop on Statistical properties of nuclei, ECT\* Trento, Italy, 11.7. - 15.7. 2016.
73. Gamma-ray strength functions at low energy  
Invited talk at the 1. Research Coordination Meeting on Updating Photonuclear Data Library and Generating a Reference Database for Photon Strength Functions, IAEA Headquarters, Vienna, Austria, 4.4. - 8.4. 2016.
72. Low-energy M1 strength in deformed nuclei  
Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Darmstadt, 14.3. - 18.3. 2016.
71. Photon strength functions from photon scattering  
Invited talk at the Annual Fall Meeting of the APS Division of Nuclear Physics, Santa Fe, New Mexico, USA, 28.10. - 31.10. 2015

70. Gamma-ray strength functions in  $^{74}\text{Ge}$   
Invited talk at the 5th Workshop on Level Density and Gamma Strength, Oslo, Norway, 18.5. - 22.05. 2015.
69. Low-energy enhancement of M1 strength  
Invited talk at the 11th International Spring Seminar on Nuclear Physics, Ischia, 12.5. - 16.5. 2014.
68. Low-energy enhancement of M1 strength  
Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Frankfurt, 2014.
67. Electromagnetic strength functions  
Invited talk at the 45. Arbeitstreffen Kernphysik, Schleching, Februar 2014.
66. Low-lying M1 strength within the shell model  
Invited talk at the 4th Workshop on Level Density and Gamma Strength, Oslo, Norway, 23.5. - 27.05. 2013.
65. Pygmy dipole strength in  $^{86}\text{Kr}$  and systematics of  $N=50$  isotones  
Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Dresden, 2013.
64. Dipole strength on the tail of the giant dipole resonance  
Invited talk at the VIII. Tours Symposium on Nuclear Physics and Astrophysics, Black Forest, 2.9. - 7.9. 2012.
63. Dipole strength on the tail of the giant dipole resonance  
Invited talk at the workshop on The nuclear dipole polarizability and its impact on nuclear structure and astrophysics, ECT\* Trento, Italy, 18.6. - 22.6. 2012.
62. Inelastic scattering of fast neutrons from excited states in  $^{56}\text{Fe}$   
Seminar at IRMM Geel, Belgium, 14.3. 2012.
61. Study of dipole strength distributions in photon-scattering experiments  
Invited talk at the Workshop on Statistical Gamma Rays, Oslo, 6.2. 2012.
60. Experiments with neutrons and photons at ELBE  
Invited talk at the Fourteenth International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Guelph, Canada, 28.08. - 02.09. 2011.
59. Enhanced dipole strength and its consequences for reaction rates  
Invited talk at the 3rd Workshop on Level Density and Gamma Strength, Oslo, Norway, 23.5. - 27.05. 2011

58. Study of dipole strength distributions at the ELBE accelerator  
Invited talk at the Workshop on N-N interaction and the Nuclear Many-Body Problem, Mumbai, India, 18. - 27.11. 2010.
57. Study of dipole strength distributions at the ELBE accelerator  
Invited seminar talk at Institut für Kernphysik, TU Darmstadt, Darmstadt, 11.05. 2010.
56. Enhancement of dipole strength below the neutron-separation energy in  $^{139}\text{La}$   
Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Bonn, 15.3. - 19.3. 2010.
55. Enhanced dipole strength below particle threshold  
2nd Workshop on Level Density and Gamma Strength, Oslo, 11.5. - 15.5. 2009.
54. Systematics of electric dipole strength in the stable even-mass Mo isotopes  
Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Bochum, 16.3. - 20.3. 2009.
53. Experiments on nuclear rotation  
Institutsseminar des Instituts für Strahlenphysik  
Forschungszentrum Dresden-Rossendorf, 20.8. 2008.
52. Gamma-ray strength-function measurements at ELBE  
Invited talk at the Workshop on Statistical Nuclear Physics and Applications in Astrophysics and Technology  
Athens, Ohio, 8.7. - 11.7. 2008.
51. Dipole strength in  $^{89}\text{Y}$  and  $^{90}\text{Zr}$  up to the neutron-separation energy  
Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Darmstadt, 10.3. - 14.3. 2008.
50. Strength-function measurements  
Invited talk at the Workshop on Modern Methods Using Fast Neutrons for Research Related to the Transmutation of Nuclear Waste  
Forschungszentrum Dresden-Rossendorf, 13.2. - 15.2. 2008.
49. Dipole-strength functions studied in photon-scattering experiments at ELBE  
Invited seminar talk at the Triangle Universities Nuclear Laboratory, Durham, North Carolina, 15.1. 2008.
48. Dipole strength in  $N=50$  nuclei studied in photon-scattering experiments at ELBE  
Invited talk at the Workshop on Photon Strength Functions and Related Topics  
Prague, 17.6. - 20.6. 2007.

47. Dipole-strength distributions up to the Giant Dipole Resonance deduced from photon scattering  
Invited talk at the 9th International Spring Seminar on Nuclear Physics - Changing Facets of Nuclear Structure -  
Vico Equense, 20.5. - 24.5. 2007.
46. Dipole response of  $^{88}\text{Sr}$  up to the neutron-separation energy  
Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Gießen, 12.3. - 16.3. 2007.
45. Quadrupole moment of the  $8^+$  yrast state in  $^{84}\text{Kr}$   
Frühjahrstagung der Deutschen Physikalischen Gesellschaft, Gießen, 12.3. - 16.3. 2007.
44. Photon-scattering and photoactivation experiments at the electron accelerator ELBE  
Invited seminar talk at the Departamento de Fisica Teorica  
Universidad Autonoma de Madrid, Madrid, 6.11. 2006.
43. Photon-scattering and photoactivation experiments at the electron accelerator ELBE  
Invited talk at the Workshop AP.G.RA.D(E) 2006, Applications of Gamma-Ray Diffraction  
Institut Laue-Langevin, Grenoble, 26.10. - 28.10. 2006.
42. Dipole-strength distributions up to the particle-separation energies and photodissociation of Mo isotopes  
Second International Conference on Collective Motion in Nuclei Under Extreme Conditions (COMEX2)  
Sankt Goar, 20.6. - 23.6. 2006.
41. Electromagnetic excitations in nuclei: from photon scattering to photodisintegration  
Frühjahrstagung der Deutschen Physikalischen Gesellschaft  
München, 20.3. - 24.3. 2006.
40. Nuclear-structure and nuclear-astrophysics experiments at the superconducting electron accelerator ELBE  
Invited Lecture at the XVI International School on Nuclear Physics, Neutron Physics and Nuclear Energy  
Varna, Bulgaria, 19.9. - 26.9. 2005.
39. The decay of  $1^+$  states as a new probe of the structure of  $0^+$  shape isomers  
Frühjahrstagung der Deutschen Physikalischen Gesellschaft  
Berlin, 4.3. - 9.3. 2005.
38. Der Bremsstrahlungs-Messplatz am ELBE-Beschleuniger des FZ Rossendorf (Poster)  
Frühjahrstagung der Deutschen Physikalischen Gesellschaft  
Tübingen, 17.3. - 21.3. 2003.

37. Stand der Vorbereitung kernphysikalischer Experimente an ELBE  
Tagung des ELBE Machine Advisory Committee  
FZ Rossendorf, 25.3. 2002.
36. Magnetic and collective rotation in  $^{79}\text{Br}$   
Nuclear Physics Spring Meeting  
Münster, 11. - 15.3. 2002.
35. Kernphysikalische Experimente mit Bremsstrahlung an ELBE  
Tagung des ELBE Machine Advisory Committee  
FZ Rossendorf, 23.3. 2001.
34. Transition strengths in magnetic dipole bands in  $^{82}\text{Rb}$ ,  $^{83}\text{Rb}$  and  $^{84}\text{Rb}$   
Frühjahrstagung der Deutschen Physikalischen Gesellschaft  
Erlangen, 19. - 23.3. 2001.
33. Transition strengths in magnetic dipole bands in  $^{82}\text{Rb}$ ,  $^{83}\text{Rb}$  and  $^{84}\text{Rb}$  (Poster)  
NP2001 - International symposium on Nuclear Structure Physics  
Goettingen, 5.3. - 8.3. 2001.
32. Kernstrukturexperimente mit Bremsstrahlung  
ELBE Seminar  
FZ Rossendorf, 9.11. 2000.
31. Nachweis von Radioaktivität  
Lehrerfortbildung 2000 im FZR  
FZ Rossendorf, 17.8. 2000.
30. Der Elektronenbeschleuniger ELBE und seine Möglichkeiten für Experimente mit Infrarot-Laserlicht, Röntgen- und Bremsstrahlung  
Eingeladener Seminarvortrag, Fakultät Physik der Universität Stuttgart, 29.6. 2000.
29. Signature inversion caused by triaxiality in  $^{72}\text{Br}$  and band termination in  $^{73}\text{Br}$   
Invited talk at the International conference Bologna 2000 - Structure of the Nucleus at the Dawn of the Century  
Bologna, Italy, 29.5. - 3.6. 2000.



28. Signature inversion in  $^{72}\text{Br}$   
Frühjahrstagung der Deutschen Physikalischen Gesellschaft  
Dresden, 20.3. - 24.3. 2000.
27. Experimentelle Untersuchung von Teilchenanregungen und Rotationsmoden in mittelschweren Kernen  
Eingeladener Seminarvortrag, Fachbereich Strahlenschutzphysik der Technischen Universität Dresden  
Dresden, 25.11. 1999.
26. Nuclear Resonance Fluorescence Experiments at ELBE  
Invited Talk at the WOG99 Workshop on Spin and Isospin Excitations in Nuclei  
Gent, Belgium, 15.11. - 16.11. 1999
25. Nuclear Resonance Fluorescence Experiments at the Accelerator ELBE  
Invited Talk at the XIII International School on Nuclear Physics, Neutron Physics and Nuclear Energy  
Varna, Bulgaria, 27.9. - 3.10. 1999.
24. Particle excitations and rotational modes in nuclei with  $A = 70 - 90$   
Invited Lecture at the XIII International School on Nuclear Physics, Neutron Physics and Nuclear Energy  
Varna, Bulgaria, 27.9. - 3.10. 1999.
23. Stand der Arbeiten am Gepulsten Injektor - Planungen für den Kernphysik-Meßplatz  
ELBE Seminar  
FZ Rossendorf, 7.7. 1999.
22. Shell-model states in the  $N = 48$  nuclei  $^{83}\text{Br}$ ,  $^{85}\text{Rb}$  and  $^{87}\text{Y}$  (Poster)  
Fifty Years Nuclear Shell Model, International conference  
Heidelberg, 3.6. - 5.6. 1999.
21. Future projects of the Nuclear Structure Group at FZR  
Workshop on Medium-Mass Nuclei  
FZ Rossendorf, 26.2. 1999.
20. Das Zyklotron U-120 - langjährige Basis der Rossendorfer Kernstrukturforschung  
Kolloquium 40 Jahre Rossendorfer Zyklotron U-120  
FZ Rossendorf, 18.9. 1998.

19. Magnetic Rotation in the Mass 80 Region  
Special Physics Division Seminar  
Argonne National Laboratory, Argonne, Illinois, USA, 7.7. 1998.
18. M1 bands in heavy Rb isotopes  
Invited Talk at the Workshop on Applications of High-Precision  $\gamma$ -Spectroscopy  
University of Notre Dame, Notre Dame, Indiana, USA, 1.7. - 3.7. 1998.
17. Magnetic Dipole Bands in  $^{82}\text{Rb}$ ,  $^{83}\text{Rb}$  and  $^{84}\text{Rb}$  (Poster)  
2nd International Conference on Exotic Nuclei and Atomic Masses  
Bellaire, Michigan, USA, 23.6. - 27.6. 1998.
16. Magnetic dipole bands in  $^{82}\text{Rb}$ ,  $^{83}\text{Rb}$  and  $^{84}\text{Rb}$   
Frühjahrstagung der Deutschen Physikalischen Gesellschaft  
Bochum, 16.2. - 20.2. 1998.
15. Hochspinzustände im  $N = 48$  Kern  $^{87}\text{Y}$   
Frühjahrstagung der Deutschen Physikalischen Gesellschaft  
Göttingen, 24.2. - 28.2. 1997.
14. Kernstruktur-Untersuchungen am Beschleuniger ELBE  
Zentrumsseminar des Forschungszentrums Rossendorf, 20.2. 1997
13. Dipole excitations in  $^{122}\text{Te}$ ,  $^{126}\text{Te}$  und  $^{130}\text{Te}$  - Nuclear resonance fluorescence experiments at the S-DALINAC with one EUROBALL CLUSTER detector -  
International conference on nuclear structure around the turn of the century  
Kreta, 30.6. - 6.7. 1996.
12. Dipolanregungen in  $^{122}\text{Te}$ ,  $^{126}\text{Te}$  und  $^{130}\text{Te}$   
Frühjahrstagung der Deutschen Physikalischen Gesellschaft  
Stuttgart, 25. - 29.3. 1996.
11. Magnetische Rotation in Kernen um  $A = 80$   
Frühjahrstagung der Deutschen Physikalischen Gesellschaft  
Stuttgart, 25. - 29.3. 1996.

10. Experiments with EUROBALL CLUSTER Detectors  
Spring Meeting of the Institute of Nuclear and Hadronic Physics  
Holzhau, 18.-22.3. 1996.
9. Shell-Model States and Collectivity in  $^{83}\text{Br}_{48}$  and  $^{85}\text{Rb}_{48}$   
Symposium on New Nuclear Structure Phenomena in the Vicinity of Closed Shells  
Stockholm - Uppsala, Schweden, 30.8. - 4.9. 1994.
8. Particle and Collective Excitations in Nuclei with 48, 49 or 50 Neutrons  
Frühjahrstagung der Deutschen Physikalischen Gesellschaft  
München, 21.-25.3. 1994.
7. High-Spin States built on the  $17/2^+$  Isomer in  $^{85}\text{Kr}$   
Frühjahrstagung der Deutschen Physikalischen Gesellschaft  
Mainz, 22.-26.3. 1993.
6. Channel Selection with Si Detectors  
EUROBALL Meeting on Auxiliary Detectors and Selective Devices,  
Hahn-Meitner-Institut, Berlin, 1.-3.6. 1992
5. In-Beam Study of  $^{83}\text{Br}$   
Frühjahrstagung der Deutschen Physikalischen Gesellschaft  
Salzburg, Österreich, 24.-28.2. 1992.
4. Shape Evolution in Odd-Mass Kr and Br Nuclei  
Seminar im Institut für Kernphysik der Universität zu Köln, 17.4. 1991.
3. Kernspektroskopische Untersuchungen von Übergangskernen ( $A \approx 80$ )  
Sonderseminar in der Gesellschaft für Schwerionenforschung,  
Darmstadt, 18.5. 1990.
2. Quasiparticle Excitations in Odd-Mass Kr Nuclei  
Frühjahrstagung der Deutschen Physikalischen Gesellschaft  
Strasbourg, Frankreich, 26.-30.3. 1990.

1. High-Spin States in  $^{79}\text{Br}$   
Konferenz für Kernspektroskopie und Struktur des Atomkerns  
Riga, UdSSR, 14.-17.4. 1987.