

Publications in Refereed Scientific Journals

1987

1. *Evidence for Prolate Deformation in Highly Excited Neutron-Deficient Pb Isotopes*
D. R. Chakrabarty, M. Thoennessen, N. Alamanos, P. Paul, and S. Sen,
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2. *Giant Resonances in Excited Sn Isotopes*
D. R. Chakrabarty, S. Sen, M. Thoennessen, N. Alamanos, P. Paul, R. Schicker, J. Stachel, and J. J. Gaardhoje,
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3. *Giant Dipole Resonance in Highly Excited Thorium: Evidence for Strong Fission Hindrance*
M. Thoennessen, D. R. Chakrabarty, M. G. Herman, R. Butsch, and P. Paul,
Phys. Rev. Lett. **59**, 2860 (1987)

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4. *Pileup Rejection in Pulsed Beam Experiments*
S. Sen, D. R. Chakrabarty, P. Paul, J. Stachel, and M. Thoennessen,
Nucl. Instr. Meth. **A264**, 407 (1988)
5. *Giant Dipole Resonances in Excited Er Isotopes*
D. R. Chakrabarty, M. Thoennessen, S. Sen, P. Paul, R. Butsch, and M. G. Herman,
Phys. Rev. C **37**, 1437 (1988)
6. *Onset of Deformation in Pb Isotopes at High Excitation Energies*
M. Thoennessen, D. R. Chakrabarty, R. Butsch, M. G. Herman, P. Paul, and S. Sen,
Phys. Rev. C **37**, 1762 (1988)

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7. *High Energy Photon Production in Low Energy $^{12}\text{C} + ^{112,124}\text{Sn}$ Collisions*
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8. *Nuclear Deformation in Excited Pb Isotopes from Giant Dipole γ -ray—Fission Angular Correlations*
R. Butsch, M. Thoennessen, D. R. Chakrabarty, M. G. Herman, and P. Paul,
Phys. Rev. C **41**, 1530 (1990)

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9. *High Energy Target Excitations in Heavy Ion Inelastic Scattering*
M. Thoennessen, J. R. Beene, F. E. Bertrand, D. J. Horen, M. L. Halbert, D. C. Hensley, J. E. Lissanti, W. Mittig, Y. Schutz, N. Alamanos, F. Auger, J. Barrette, B. Fernandez, A. Gillibert, B. Haas, J. P. Vivien, and A. M. Nathan,
Phys. Rev. C **43**, R12 (1991)
10. *Giant Dipole Resonance Widths at High Excitations in Statistical Model Calculations*
M. Thoennessen,
Phys. Rev. Lett. **66**, 1640 (1991)
11. *Isospin Character of Transitions to Bound States in $^{204,206,208}\text{Pb}$ Using Inelastic Scattering of ^{17}O Ions*
D. J. Horen, R. L. Auble, J. R. Beene, F. E. Bertrand, M. L. Halbert, G. R. Satchler, M. Thoennessen, R. L. Varner, V. R. Brown, P. L. Anthony, and V. A. Madsen,
Phys. Rev. C **44**, 128 (1991).
12. *Time Scales for Fusion-Fission and Quasi-Fission from Giant Dipole Resonance Decay*
R. Butsch, D. J. Hofman, C. P. Montoya, P. Paul, and M. Thoennessen,
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13. *A Study of the Particle Multiplicity Dependence of High Energy Photon Production in a Heavy-Ion Reaction*
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14. *Nuclear Dissipation and the Feeding of Superdeformed Bands*
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15. *Large Deformation in $A \sim 170$ Nuclei at High Excitation Energies*
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D. G. Sarantites, and D. W. Stracener,
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16. *Momentum Distributions of ^9Li Fragments Following the Break-up of ^{11}Li*
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17. *Mechanism for the disassembly of excited ^{16}O projectiles into four alpha particles*
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18. *Half-life Measurements for the rp -process Nuclei ^{61}Ga , ^{63}Ga , and ^{65}As*
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19. *Neutron Decay of ^{10}Li Produced by Fragmentation*
R. A. Kryger, A. Azhari, A. Galonsky, J. H. Kelley, R. Pfaff, E. Ramakrishnan, D. Sackett, B. M. Sherrill, M.
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20. *Evidence for Long Formation Times of Near Barrier Fusion Reactions*
M. Thoennessen, J. R. Beene, F. E. Bertrand, C. Baktash, M. L. Halbert, D. J. Horen, D. G. Sarantites, W.
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21. *Influence of Dissipation on the Population and Decay of Compound Nuclei*
M. Thoennessen and J. R. Beene,
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22. *Strong Isomer Production in Fragmentation Reactions*
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23. *Search for Entrance Channel Effects in the Decay of the ^{164}Yb Compound Nucleus at $E^* = 54 \text{ MeV}$*
J. L. Barreto, N. G. Nicolis, D. G. Sarantites, R. J. Charity, L. G. Sobotka, D. W. Stracener, D. C. Hensley, J. R.
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24. *Half-life Measurements ^{61}Ga , ^{63}Ga , and ^{65}As and their Importance for the rp -Process*
J. A. Winger, D. P. Bazin, W. Benenson, G. M. Crawley, D. J. Morrissey, N. A. Orr, R. Pfaff, B. M. Sherrill, M.
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Phys. Rev. C **48**, 3097 (1993)
25. *A Threshold for Dissipative Fission*
M. Thoennessen and G. F. Bertsch,
Phys. Rev. Lett. **71**, 4303 (1993)
26. *Target Isotope Effect in High Energy Photon Production at $E/A = 10 \text{ MeV}$*
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27. *Low-lying Structure of ^{10}Li in the Reaction $^{11}\text{B}(^7\text{Li}, ^8\text{B})^{10}\text{Li}$*
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28. *Fission Timescales from Giant Dipole Resonances*
P. Paul and M. Thoennessen,
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29. *Coulomb and Nuclear Dissociation of ^6He and ^6Li*
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Phys. Rev. Lett. **72**, 2355 (1994)
30. *Heavy-Ion Coulomb Excitation and Gamma Decay Studies of The One- and Two Phonon Giant Dipole Resonances in ^{208}Pb and ^{209}Bi*
P. E. Mueller, J. R. Beene, F. E. Bertrand, M. L. Halbert, D. H. Olive, R. L. Varner, B. Sherrill, M. Thoennessen, P. Chomaz, P. Lauthridou, F. Lefèvre, M. Marqués, T. Matulewicz, W. Mittig, R. Ostendorf, Y. Schutz, J. van Pol, H. W. Wilschut, J. Díaz, J. L. Ferrero, and A. Marín,
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31. *Neutron Efficiency of BaF_2 Detectors for energies between 15–150 MeV*
R. A. Kryger, A. Azhari, E. Ramakrishnan, M. Thoennessen, and S. Yokoyama,
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32. *Parallel Momentum Distributions as a Probe of Halo Wave Functions*
J. H. Kelley, Sam. M. Austin, R. A. Kryger, D. J. Morrissey, N. A. Orr, B. M. Sherrill, M. Thoennessen, J. S. Winfield, J. A. Winger, and B. M. Young,
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33. *Ground State Two Proton Decay of ^{12}O*
R. A. Kryger, A. Azhari, M. Hellström, J. H. Kelley, T. Kubo, R. Pfaff, E. Ramakrishnan, B. M. Sherrill, M. Thoennessen, S. Yokoyama, R. J. Charity, J. Dempsey, A. Kirov, N. Robertson, D. G. Sarantites, L. G. Sobotka, and J. A. Winger,
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34. *The one-neutron halo of ^{19}C*
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35. *Decay of $^{160}\text{Er}^*$ in $^{16}\text{O}+^{144}\text{Nd}$ and $^{64}\text{Ni}+^{96}\text{Zr}$ fusion reactions*
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36. *Momentum Distributions of ^9Li Fragments from the Breakup of ^{11}Li and the Neutron Halo*
N. A. Orr, N. Anantaraman, Sam M. Austin, C. A. Bertulani, K. Hanold, J. H. Kelley, R. A. Kryger, D. J. Morrissey, B. M. Sherrill, G. A. Souliotis, M. Steiner, M. Thoennessen, J. S. Winfield, J. A. Winger, and B. M. Young,
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38. *Reply to “Comment on Threshold for Dissipative Fission”*
M. Thoennessen, and G. F. Bertsch,
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39. *Studies of Light Nuclei Beyond the Particle Driplines: The Two-Proton Emitter ^{12}O*
R. A. Kryger, A. Azhari, M. Hellström, J. H. Kelley, T. Kubo, R. Pfaff, E. Ramakrishnan, B. M. Sherrill, M. Thoennessen, S. Yokoyama, R. J. Charity, J. Dempsey, A. Kirov, N. Robertson, D. G. Sarantites, L. G.

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40. *Dynamical Effects in the Population of Compound Nuclei*
M. Thoennessen,
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 41. *Multistep Scattering in the 160 MeV $^{208}\text{Pb}(\alpha, \alpha')$ Reaction*
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 43. *Giant Dipole Resonance Built on Highly Excited States of ^{120}Sn Nuclei Populated by Inelastic α - α Scattering*
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 45. *Giant Dipole Resonance in Excited ^{208}Pb and ^{120}Sn Nuclei Populated by Inelastic α - α Scattering*
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 48. *Computer-Assisted Assignments in a Large Physics Class*
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 49. *New Region of Strong Deformation: The Neutron-rich Sulfur Isotopes*
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 50. *Study of the Breakup Reaction $^8\text{B} \rightarrow ^7\text{Be} + p$: Absorption Effects and E2 Strength*
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T. Baumann, E. Ramakrishnan, and M. Thoennessen,
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53. *Excitation and Decay of the First Excited State of ^{17}Ne*
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54. *Coulomb Excitation of the One-Neutron Halo Nucleus ^{11}Be*
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55. *Reaction Cross Sections and Radii for f - p Shell Exotic Neutron Rich Nuclei*
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56. *Fission Dynamics Using the Decay of the Giant Dipole Resonance*
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59. *Application of Technology and Asynchronous Learning Networks in Large Lecture Classes*
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60. *Proton Decay of States in ^{11}N*
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62. *Evolution of the Giant Dipole Resonance in Excited ^{120}Sn and ^{208}Pb Nuclei Populated by Inelastic Alpha Scattering*
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