

JAMES J. KOLATA

PROFESSOR OF PHYSICS

**AT NOTRE DAME
SINCE 1977**

BORN: December 26, 1942

AT: Milwaukee, Wisconsin

Marquette University; 1964; B.S.
Michigan State University; 1966; M.S.
Michigan State University; 1969; Ph.D.

NAS-NRC postdoctoral research associate at the Naval Research Laboratory, Washington, D.C., 1969-70.

Senior postdoctoral research associate, University of Pittsburgh, 1970-72

Assistant Physicist, Brookhaven National Laboratory, 1972-73

Associate Physicist, Brookhaven National Laboratory, 1973-76

Physicist, Brookhaven National Laboratory, 1976-77

Associate Professor, University of Notre Dame, 1977-1984

Professor, University of Notre Dame, 1984-Present

Research Area:

Experimental Nuclear Physics

Honors, Awards, Professional Committee and Board Memberships:

Member of the American Physical Society, the American Association for the Advancement of Science, Sigma Pi Sigma, Sigma Xi.

Consultant, CRN/Strasbourg, 1974.

Consultant, Holifield Heavy-Ion Research Facility, Oak Ridge National Laboratory, 1975.

Visiting Physicist, CRN/Strasbourg, 3 month appointment, 1976 and 1978.

Past Chairman, Steering Committee, National Superconducting Cyclotron Facility, Michigan State University.

Past Chairman, Executive Committee of the Users' Group, National Superconducting Cyclotron Facility, Michigan State University.

Chairman, Organizing Committee, Nuclear Physics Divisional Meeting, Notre Dame, IN, 1983.

Visiting Scientist, Argonne National Lab., 1983-84.

Past Chairman, Executive Committee of the Users' Group, ATLAS Facility, Argonne National Laboratory.

Chairman, Organizing Committee, International Workshop on the Interface between Nuclear Structure and Heavy-Ion Reaction Dynamics, Notre Dame, IN, 1990.

Visiting Physicist, National Superconducting Cyclotron Laboratory, Michigan State University, 1991.

Past Member, Editorial Board of Physical Review C.

Fellow, American Physical Society.

Corresponding Member, National Academy of Sciences of Mexico.

Joon S. Moon Distinguished International Alumni Award; Michigan State University (2000).

International Advisory Committee, Oaxtepec Conference on Nuclear Physics, Mexico (1995-present).

International Advisory Committee, Isotope Separator On Line (ISOL) Conference 2001, Oak Ridge National Laboratory, Tennessee.

Member, Program Advisory Committee, Oak Ridge National Laboratory, Tennessee.

2009 Outstanding Referee, Physical Review and Physical Review Letters. (One of 340 out of 42,000 referees to receive this award in 2009.)

Invited Addresses at National and International Conferences:

Nuclear Physics Division, American Physical Society, 1974.

Gordon Conference on Nuclear Structure, 1977.

International Workshop on Heavy-Ion Resonances, Florida State University, 1978.

International Workshop on Double-Folded Potentials, University of Iowa, 1978.

International Symposium on Heavy-Ion Fusion Processes, Bonn, West Germany, 1980.

International Symposium on Heavy-Ion Resonance Reactions, Bad Honnef, West Germany, 1981.

Fifth Oaxtepec Symposium on Nuclear Physics, Oaxtepec, Mexico, 1982.

“The Argonne-Notre Dame BGO Compton-Suppressed Spectrometer and Multiplicity Filter,” J.J. Kolata, “Atlas” Dedication Symposium and Workshop, Argonne National Laboratory, Argonne, Illinois (1985).

Tenth Oaxtepec Symposium on Nuclear Physics, Oaxtepec, Mexico, 1987.

Tenth Accelerator Conference, Denton, Texas, 1988.

Eleventh Oaxtepec Symposium on Nuclear Physics, Oaxtepec, Mexico, 1988.

“Neutron Emission Spectra and Superdeformation in Light Nuclei,” 196th National Meeting of the American Chemical Society, Los Angeles, CA, 1988.

International Workshop on the Interface between Nuclear Structure and Heavy Ion Reaction Dynamics, Notre Dame, IN, 1990.

Second Mexican National Symposium on Accelerator Physics, Mexico City, Mexico, 1991.

International Conference on Nuclear Physics with New Techniques, Crete, Greece, 1991.

International Symposium on Structure and Reactions of Unstable Nuclei, Niigata, Japan, 1991.

Fifteenth Oaxtepec Symposium on Nuclear Physics, Oaxtepec, Mexico, 1992.

International Workshop on Heavy Ion Reactions with Neutron Rich Beams, Tokyo, Japan, 1993.

Third International Conference on Radioactive Nuclear Beams, East Lansing, Michigan, 1993.

Eighteenth Oaxtepec Symposium on Nuclear Physics, Oaxtepec, Mexico, 1995.

National Meeting of the American Chemical Society, Honolulu, Hawaii, 1995.

Fourth International Conference on Radioactive Nuclear Beams, Omiya, Japan, 1996.

Intern. Conf. on Nuclear Dynamics at Long and Short Distances, Angra dos Reis, Brazil (1996)

Intern. Meeting of the American, Canadian, and Mexican Physical Societies, Washington, DC, 1997.

Twenty-First Oaxtepec Symposium on Nuclear Physics, Oaxtepec, Mexico, 1998.

International Conference on Exotic Nuclei and Atomic Masses, Bellaire, MI (1998).

Twenty-Third Oaxtepec Symposium on Nuclear Physics, Oaxtepec, Mexico, 2000.

Fusion Dynamics at the Extremes, Dubna, Russia, 2000.

RIB00, Perspectives in Physics with Radioactive Ion Beams, Hayama, Japan (2000).

XII Jorge Andre Sweicz Summer School on Experimental Nuclear Physics, University of Sao Paulo IFUSP, Sao Paulo, Brazil, 2004.

Workshop on Spectroscopic Factors, European Center for Theory, Trento, Italy, 2004.

2/18/09

James J. Kolata
List of Scientific Publications

1. "Excitation Energy of the First Excited State of ^{12}C and the Observation of a Coherent Doppler Shift," J.J. Kolata, R. Auble and A. Galonsky, Phys. Rev. 162, 957 (1967).
2. "Energy Loss Straggling of Protons in Silicon," J.J. Kolata, T.M. Amos and Hans Bichsel, Phys. Rev. 176, 484 (1968).
3. "Proton Spin Flip in the Reaction $^{12}\text{C}(\text{p},\text{p}')^{12}\text{C}^*$ (4.44 MeV)," J.J. Kolata and A. Galonsky, Phys. Rev. 182, 1073 (1969).
4. "A Rapid Emittance Scanner," J.J. Kolata and R.E. Surratt, Nucl. Instr. and Meth. 87, 141 (1970).
5. "Spin and Parity of the 1644 keV State in ^{40}K ," J.J. Kolata, P. Shapiro and L.S. August, Phys. Lett. 32B, 277 (1970).
6. "Analysis of the (p, ^3He) and (d, α) Reactions on ^{209}Bi ," J.J. Kolata, L.S. August and P. Shapiro, Phys. Rev. C 3, 296 (1971).
7. "Shell Model Structure of ^{210}Bi : $^{209}\text{Bi}(\text{d},\text{p})$ at 17 MeV," J.J. Kolata and W.W. Daehnick, Phys. Rev. C 5, 568 (1972).
8. "(p,t) Population of O^+ States in $^{158,160,162}\text{Dy}$ and $^{166,164}\text{Er}$," J.V. Maher, J.J. Kolata and R.W. Miller, Phys. Rev. C 6, 358 (1972).
9. "States of ^{86}Rb : The $^{87}\text{Rb}(\text{d},\text{t})^{86}\text{Rb}$ Reaction," J.E. Holden, J.J. Kolata and W.W. Daehnick, Phys. Rev. C 6, 1305 (1972).
10. "States of ^{86}Rb : The $^{88}\text{Sr}(\text{d},\alpha)^{86}\text{Rb}$ Reaction," J.J. Kolata, W.W. Daehnick and J.E. Holden, Phys. Rev. C 6, 1312 (1972).
11. "Rotational Bands of ^{168}Tm from the $^{169}\text{Tm}(\text{d},\text{t})^{168}\text{Tm}$ Reaction," J.J. Kolata and J.V. Maher, Phys. Rev. C 8, 285 (1973).
12. "Gamma-Ray Spectroscopy in $A \cong 40$ Nuclei via Heavy-Ion Induced Reactions: High-Spin States in ^{41}K and ^{41}Ca ," Ph. Gorodetzky, J.J. Kolata, J.W. Olness, A.R. Poletti and E.K. Warburton, Phys. Rev. Lett. 31, 1067 (1973).
13. "Lifetimes of the Lowest $5/2^+$ and $9/2^+$ States of the Mirror Pair ^{23}Na - ^{23}Mg ," E.K. Warburton, J.J. Kolata and J.W. Olness, Phys. Rev. C 8, 1385 (1973).
14. "Possible Evidence of Multi-step Processes in the (d,t) Reaction on Rare-Earth Nuclei," J.V. Maher, G.H. Wedberg, J.J. Kolata, J.C. Peng and J.L. Ricci, Phys. Rev. C 8, 2390 (1973).
15. "High-spin States in ^{39}K from $^{24}\text{Mg}(\text{O}, \text{p}2\text{n}\gamma\gamma \dots)^{39}\text{K}$," J.J. Kolata, Ph. Gorodetzky, J.W. Olness, A.R. Poletti and E.K. Warburton, Phys. Rev. C 9, 953 (1974).

16. "Lifetimes of the $(f_{7/2})^3 15/2^-$ States in ^{51}V and ^{43}Ca and $(f_{7/2})^2$ States in ^{50}Ti and ^{42}Ca via Heavy-ion Recoil-Distance-Method Measurements," A.R. Poletti, B.A. Brown, D.B. Fossan, Ph. Gorodetzky, J.J. Kolata, J.W. Olness and E.K. Warburton, *Phys. Rev. C* 10, 997 (1974).
17. "High-Spin States in ^{44}Ti and ^{44}Sc ," J.J. Kolata, J.W. Olness and E.K. Warburton, *Phys. Rev. C* 10, 1633 (1974).
18. "Gamma Rays from Fusion-Evaporation Reactions in $32 < A < 46$ Nuclei," E.K. Warburton, J.J. Kolata, J.W. Olness, A.R. Poletti and Ph. Gorodetzky, *Atomic Data and Nuclear Data Tables* 14, 147 (1974).
19. "Observation of Multi-step Inelastic Processes in Heavy-ion Induced Two-Neutron Transfer Reactions on Rare-earth Nuclei," K.A. Erb, D.L. Hanson, R.J. Ascutto, B. Sorenson and J.J. Kolata, *Phys. Rev. Lett.* 33, 1102 (1974).
20. " γ -ray Linear Polarization Measurements Following Heavy-Ion Bombardment of $2s-1d$ Shell Nuclei," J.W. Olness, A.H. Lumpkin, J.J. Kolata, E.K. Warburton, J.S. Kim and Y.B. Lee, *Phys. Rev. C* 11, 110 (1975).
21. "Decay Schemes for High Spin States in ^{42}K and ^{42}Ca ," E.K. Warburton, J.J. Kolata and J.W. Olness, *Phys. Rev. C* 11, 700 (1975).
22. "Inelastic Nuclear-Coulomb Interference and Direct-Two-Step Interference in Heavy-ion Induced Two-nucleon Transfer Reactions on Rare Earth Nuclei," R.J. Ascutto, J.S. Vaagen, K.A. Erb, D.L. Hanson, D.A. Bromley and J.J. Kolata, *Phys. Lett.* 55B, 289 (1975).
23. "Lifetimes of the 2893- and 3464-keV Levels of ^{40}Ar ," E.K. Warburton, J.W. Olness and J.J. Kolata, *Phys. Rev. C* 12, 1392 (1975).
24. "Quadrupole Transfer Strength for Deformed Rare-earth Nuclei as Studied with Heavy-ion Induced Two-Nucleon Transfer Reactions," D.L. Hanson, R.J. Ascutto, J.S. Vaagen, K.A. Erb, D.A. Bromley, J.J. Kolata and D.J. Pisano, *Nucl. Phys. A* 269, 520 (1976).
25. "Heavy-Ion Fusion-evaporation Reactions: High Spin States in ^{43}Ca and ^{43}Sc ," A.R. Poletti, E.K. Warburton, J.J. Kolata, J.W. Olness and Ph. Gorodetzky, *Phys. Rev. C* 13, 1180 (1976).
26. "High-spin States in ^{39}Ar ," E.K. Warburton, J.W. Olness and J.J. Kolata, *Phys. Rev. C* 13, 1762 (1976).
27. "Investigation of High-spin States in ^{38}Ar ," J.J. Kolata, J.W. Olness and E.K. Warburton, *Phys. Rev. C* 13, 1944 (1976).
28. "Spins and Lifetimes of Yrast States in ^{40}Ca ," A.M. Nathan and J.J. Kolata, *Phys. Rev. C* 14, 171 (1976).

29. "Decay Schemes for High-spin States in $^{35,36,37}\text{Cl}$ and ^{37}Ar from Heavy-Ion Fusion-Evaporation Reactions," E.K. Warburton, J.W. Olness, A.R. Poletti and J.J. Kolata, Phys. Rev. C 14, 996 (1976).
30. "Possible Two-Phonon $\beta\gamma$ -Vibration in ^{156}Dy ," J.J. Kolata and M. Oothoudt, Phys. Lett. 65B, 116 (1976).
31. "On the Fusion Cross Section for $^{16}\text{O}+^{12}\text{C}$," J.J. Kolata, R.M. Freeman, F. Haas, B. Heusch and A. Gallmann, Phys. Lett. 65B, 333 (1976).
32. "Ground-state Band in ^{72}Se ," K.P. Lieb and J.J. Kolata, Phys. Rev. C 15, 939 (1977).
33. "Effect of Inelastic Excitation on Elastic Scattering of Heavy Ions," C.E. Thorn, J.C. Sens, M.J. LeVine, J.J. Kolata, C. Flaum and P.D. Bond, Phys. Rev. Lett. 38, 384 (1977).
34. "Analysis of the (p,t) Reaction on ^{158}Dy ," J.J. Kolata and M. Oothoudt, Phys. Rev. C 15, 1947 (1977).
35. "Reaction Cross Sections for $^{16}\text{O}+^{16}\text{O}$," J.J. Kolata, R.C. Fuller, R.M. Freeman, F. Haas, B. Heusch and A. Gallmann, Phys. Rev. C 16, 891 (1977).
36. "Quadrupole Transfer Strength Studied Through Heavy-Ion Induced Two-Neutron Transfer Between the Shape Transitional Nuclei $^{190,192}\text{Os}$," D.L. Hanson, K.A. Erb, J.S. Vaagen, R.J. Ascuitto, D.A. Bromley and J.J. Kolata, Phys. Rev. C 16, 902 (1977).
37. "Analysis of the ^{168}Er (d,t) ^{167}Er Reaction at 17 MeV," H.S. Song, J.J. Kolata and J.V. Maher, Phys. Rev. C 16, 1363 (1977).
38. "Yrast Decay Schemes from HI+ ^{48}Ca Fusion-Evaporation Reactions, II: $^{59,60}\text{Fe}$ and $^{59,60}\text{Co}$," E.K. Warburton, J.W. Olness, A.M. Nathan, J.J. Kolata and J.B. McGrory, Phys. Rev. C 16, 1027 (1977).
39. "High Spin States in $A\cong 40$ Nuclei: Additional Data for ^{38}Ar and ^{39}K ," E.K. Warburton, J.J. Kolata and J.W. Olness, Phys. Rev. C 16, 2075 (1977).
40. "Observation of Characteristic γ Radiation from the ($\text{K},\pi-\gamma$) Reaction on Light Nuclei," J.C. Herrera, J.J. Kolata, H. Kraner, C.L. Wang, R. Allen, D. Gockley, A. Hassan, A. Kanofsky and G. Lazo, Phys. Rev. Lett. 40, 158 (1978).
41. "Interference Effects in the Reaction $^{48}\text{Ti}(^{16}\text{O}, ^{15}\text{N}) ^{49}\text{V}$," G.B. Sherwood, K.A. Erb, D.L. Hanson, R.J. Ascuitto, D.A. Bromley and J.J. Kolata, Phys. Rev. C 18, 2574-2583 (1978).
42. "Reaction Cross Sections for the Interaction of ^{16}O with ^{12}C ," J.J. Kolata, R.M. Freeman, F. Haas, B. Heusch and A. Gallmann, Phys. Rev. C 19, 408 (1979).
43. "Gross and Intermediate-Width Structure in the Interaction of ^{16}O with ^{16}O ," J.J. Kolata, R.M. Freeman, F. Haas, B. Heusch and A. Gallmann, Phys. Rev. C 19, 2237-2245 (1979).

44. "Reaction Cross Sections for $^{12}\text{C} + ^{12}\text{C}$," J.J. Kolata, R.M. Freeman, F. Haas, B. Heusch and A. Gallmann, *Phys. Rev. C* 21, 579-587 (1980).
45. "Inclusive α -particle Production in the $^{12}\text{C} + ^{12}\text{C}$ Reaction," J.J. Kolata, R.E. Malmin, P.A. DeYoung, S. Davis and R. Luhn, *Phys. Rev. C* 21, 776-777 (1980).
46. "Striking Sensitivity of the Angular Distribution of $^{12}\text{C} + ^{184}\text{W} (4^+)$ to the Nuclear Hexadecapole Parameter," J.S. Vaagen, D.L. Hillis, P.D. Bond, C.E. Thorn, M.J. LeVine, J.J. Kolata, C. Flaum and J.-C. Sens, *Phys. Lett.* 91B, 361-364 (1980).
47. "On the Limits to Fusion in Light Heavy-Ion Systems," J.J. Kolata, *Phys. Lett.* 95B, 215-217 (1980).
48. "Structure in the $^{14}\text{C} + ^{16}\text{O}$ Reaction Cross Sections," J.J. Kolata, C. Beck, R.M. Freeman, F. Haas and B. Heusch, *Phys. Rev. C* 23, 1056-1059 (1981).
49. "Reaction-Product Velocity Measurements for the $^{16}\text{O} + ^{16}\text{O}$ and $^{12}\text{C} + ^{20}\text{Ne}$ Systems," P.A. DeYoung, J.J. Kolata, R.C. Luhn, R.E. Malmin and S.N. Tripathi, *Phys. Rev. C* 24, 166-170 (1981).
50. "Gamma-Ray Studies of the $^{12}\text{C} + ^{20}\text{Ne}$ Reaction," P.A. DeYoung, J.J. Kolata, R.C. Luhn, R.E. Malmin and S.N. Tripathi, *Phys. Rev. C* 25, 1420-1431 (1982).
51. "Gamma-Ray Studies of the $^{16}\text{O} + ^{20}\text{Ne}$ System," M.A. Xapsos, P.A. DeYoung, L.J. Satkowiak and J.J. Kolata, *Phys. Rev. C* 25, 2457-2463 (1982).
52. "Characteristic Resonances and the Limits to Fusion in Light Heavy-Ion Systems," J.J. Kolata in *Lecture Notes in Physics*, Vol. 156, ed. K.A. Eberhard (Springer-Verlag, Berlin, 1982) pp. 256-263.
53. "Future Possibilities in Low Energy Heavy-Ion Physics," J.J. Kolata in *Notas de Fisica*, Vol. 5, No. 2, ed. M.E. Ortiz and J. Lomnitz (Instituto de Physica, UNAM, Mexico, 1982) pp. 99-136.
54. "A New Level of ^{18}F ," R.M. Freeman, P.A. DeYoung, L.J. Satkowiak, M.A. Xapsos and J.J. Kolata, *Nucl. Phys. A* 385, 516-519 (1982).
55. "Reaction Cross Sections for $^{14}\text{N} + ^{14}\text{N}$," P.A. DeYoung, J.J. Kolata, L.J. Satkowiak and M.A. Xapsos, *Phys. Rev. C* 26, 1482-1489 (1982).
56. "Gamma-Ray Studies of the $^{12}\text{C} + ^{12}\text{C}$ System," L.J. Satkowiak, P.A. DeYoung, J.J. Kolata and M.A. Xapsos, *Phys. Rev. C* 26, 2027-2034 (1982).
57. "Lifetime of the 4848-keV State in ^{18}F ," J.J. Kolata, E.G. Funk, and J.D. Hinnefeld, *Phys. Rev. C* 26, 1750-1752 (1982).
58. "Reaction Cross Sections for $^{14}\text{N} + ^{10}\text{B}$," P.A. DeYoung, J.J. Kolata, L.J. Satkowiak, and M.A. Xapsos, *Phys. Rev. C* 28, 692-699 (1983).

59. "Low Energy Fusion of $^{28}\text{Si} + ^{12}\text{C}$," R.A. Racca, P.A. DeYoung, J.J. Kolata, and R.J. Thornburg, *Phys. Lett.* 129B, 294-297 (1983).
60. "Resonant Effects in the $^{13}\text{C} + ^{17}\text{O}$ Reaction," R.M. Freeman, C. Beck, F. Haas, B. Heusch, and J.J. Kolata, *Phys. Rev. C* 28, 437-439 (1983).
61. "Quasielastic Processes in the $^{28}\text{Si} + ^{208}\text{Pb}$ Reaction at 8 MeV per Nucleon," J.J. Kolata, K.E. Rehm, D.G. Kovar, G.S.F. Stephens, G. Rosner, H. Ikezoe, and R. Vojtech, *Phys. Rev. C* 30, 125-133 (1984).
62. "Energy Dissipation in Heavy Systems: The Transition from Quasielastic to Deep-Inelastic Scattering," K.E. Rehm, A. Van den Berg, J.J. Kolata, D.G. Kovar, W. Kutschera, G. Rosner, G.S.F. Stephens, J.L. Yntema, and L.L. Lee, Proceedings of the INS-RIKEN Symposium on Heavy-Ion Physics, Tokyo, Japan (1984); *Journal of the Physical Society of Japan*, Suppl. pt. II, Vol. 54, 410-421 (1985).
63. "Influence of Nucleon Fermi Motion on Incomplete Fusion," G.S.F. Stephens, G. Kovar, R.V.F. Janssens, G. Rosner, H. Ikezoe, B. Wilkins, D. Henderson, K.T. Lesko, J.J. Kolata, C.K. Gelbke, B.V. Jacak, A.M. Koenig, G.D. Westfall, A. Szanto de Toledo, E.M. Szanto, and P.L. Gonthier, *Phys. Letters* 161B, 60-64 (1985).
64. "Neutron Spectra from the $^{16}\text{O} + ^{12}\text{C}$ Fusion Reaction and Level Density Parameters," J. Kasagi, B. Remington, A. Galonsky, F. Haas, J.J. Kolata, L. Satkowiak, M. Xapsos, R. Racca, and F.W. Prosser, *Phys. Rev. C* 31, 858-866 (1985).
65. "Asymmetric Neutron Emission in $^{14}\text{N} + ^{165}\text{Ho}$ Reactions at 35 MeV/nucleon," G. Caskey, A. Galonsky, B. Remington, M.B. Tsang, C.K. Gelbke, A. Kiss, F. Deak, Z. Seres, J.J. Kolata, J. Hinnefeld, and J. Kasagi, *Phys. Rev. C* 31, 1597-1600 (1985).
66. "Neutron Emission from Collisions of ^{14}N Nuclei at 35 MeV/u," B.A. Remington, G. Caskey, A. Galonsky, C.K. Gelbke, M.B. Tsang, Z. Seres, F. Deak, A. Kiss, J. Kasagi, and J.J. Kolata, Proceedings of the 4th International Conference on Nuclear Reaction Mechanisms, Villa Monastero, Varenna, Italy (University of Milan, Milan, Italy) ed. E. Gadioli, pp. 161-170 (1985).
67. "Role of the Valence Neutron in the $^{12}\text{C} + ^{17}\text{O}$ and $^{13}\text{C} + ^{16}\text{O}$ Collisions," C. Beck, R.M. Freeman, F. Haas, B. Heusch, and J.J. Kolata, *Nucl. Phys. A* 443, 157-171 (1985).
68. "Structure in the Fusion Yield for $^{32}\text{S} + ^{12}\text{C}$," J.J. Kolata, R.A. Racca, P.A. DeYoung, E. Aguilera-Reyes, and M.A. Xapsos, *Phys. Rev. C* 32, 1080-1082 (1985).
69. "Quasielastic Processes in the $^{28}\text{Si} + ^{40}\text{Ca}$ Reaction at 225 MeV," M.F. Vineyard, D.G. Kovar, G.S.F. Stephens, K.E. Rehm, G. Rosner, H. Ikezoe, J.J. Kolata, and R. Vojtech, *Physical Review C* 33, 1325-1332 (1986).
70. "Search for Structure in the Fusion of $^{28}\text{Si} + ^{28}\text{Si}$, $^{30}\text{Si} + ^{28}\text{Si}$, and $^{30}\text{Si} + ^{30}\text{Si}$," E.F. Aguilera, J.J. Kolata, P.A. DeYoung, and J.J. Vega, *Physical Review C* 33, 1961-1970 (1986).

71. "Oscillations in the Fusion of Si + Si Systems," E.F. Aguilera, J.J. Kolata, P.A. DeYoung, and J.J. Vega, in Notas de Fisica, Vol. 9, No. 1, ed. E. Hernandez, A. Menchaca-Rocha, and M.E. Ortiz (Instituto de Physica, UNAM, Mexico, 1986), pp. 1-24.
72. "Complete and Incomplete Fusion in ^{56}Ni Compound Systems," J.D. Hinnefeld, J.J. Kolata, D.J. Henderson, R.V.F. Janssens, D.G. Kovar, K.T. Lesko, G. Rosner, G.S.F. Stephans, A.M. Van den Berg, B.D. Wilkens, F.W. Prosser, and S.V. Reinert, Proceedings of the Argonne Symposium on The Many Facets of Heavy Ion Fusion Reactions, Argonne, Illinois (1986), pp. 525-532.
73. "Neutron-Fragment Coincidence Measurements in $^{14}\text{N} + \text{Ho}$ and $^{14}\text{N} + \text{Ni}$ Reactions at 35 MeV/Nucleon," B.A. Remington, G. Caskey, A. Galonsky, C.K. Gelbke, L. Heilbronn, J. Heltsley, M.B. Tsang, F. Deak, A. Kiss, Z. Seres, J. Kasagi, and J.J. Kolata, Phys. Rev. C **34**, 1685-1705 (1986).
74. "Performance of a Large Bragg-Curve Spectrometer," M.F. Vineyard, B.D. Wilkens, D.J. Henderson, D.G. Kovar, C. Beck, C.N. Davids, and J.J. Kolata, Nuclear Instruments and Methods A **255**, 507-511 (1987).
75. "Quasi-Elastic Reactions of Si + Pb Near the Coulomb Barrier," J.J. Kolata, Notas de Fisica Vol. 10, No. 1 (1987), pp. 155-170.
76. "Neutron Emission from $^{14}\text{N} + ^{165}\text{Ho}$ Collisions at 35 MeV/u," F. Deak, A. Kiss, Z. Seres, G. Caskey, A. Galonsky, B. Remington, C.K. Gelbke, M.B. Tsang, and J.J. Kolata, Nuclear Physics A **464**, 133-158 (1987).
77. "Quasielastic Processes in the $^{28}\text{Si} + ^{208}\text{Pb}$ Reaction at 6 MeV/Nucleon," R.J. Vojtech, J.J. Kolata, L.A. Lewandowski, K.E. Rehm, D.G. Kovar, G.S.F. Stephans, G. Rosner, H. Ikezoe and M.F. Vineyard, Phys. Rev. C **35**, 2139 (1987).
78. "Tests of a Large Air-Core Superconducting Solenoid as a Nuclear Reaction Product Spectrometer," R.L. Stern, F.D. Becchetti, T. Casey, J.W. Janecke, P.M. Lister, W.Z. Liu, D.G. Kovar, R.V.F. Janssens, M.F. Vineyard, W.R. Phillips, and J.J. Kolata, Rev. Sci. Inst. **58**, 1682-1693 (1987).
79. "Velocity and Angular Distributions of Evaporation Residues from ^{32}S -Induced Reactions," J.D. Hinnefeld, J.J. Kolata, D.J. Henderson, R.V.F. Janssens, D.G. Kovar, K.T. Lesko, G. Rosner, G.S.F. Stephans, A.M. Van den Berg, B.D. Wilkens, F.W. Prosser, S.V. Reinert, and P.L. Gonthier, Phys. Rev. C **36**, 989-999 (1987).
80. "Electromagnetic Transitions in Neutron-Rich ^{40}Cl ," R.L. Kozub, J.F. Shriner, Jr., M.M. Hindi, R. Holzmann, R.V.F. Janssens, T.L. Khoo, W.C. Ma, M. Drigert, U. Garg, and J.J. Kolata, Phys. Rev. C **37**, 4, 1791 (1988).
81. "Tests of a Large Air-Core Superconducting Solenoid as a Nuclear-Reaction-Product Spectrometer," R.L. Stern, F.D. Becchetti, T. Casey, J.W. Janecke, P.M. Lister, W.Z. Liu, D.G. Kovar, R.V.F. Janssens, M.F. Vineyard, W.R. Phillips, and J.J. Kolata, Proceedings of the AIP Conference on Nuclei Far From Stability, Fifth International Conference,

- Rosseau Lake, Ontario, Canada, 1987, (American Institute of Physics, New York, 1988), pp. 845-848.
82. "Neutron Emission Spectra and Superdeformation in Light Nuclei," J.J. Kolata, R.A. Kryger, P.A. DeYoung, and F.W. Prosser, *Phys. Rev. Lett.* 61, 1178-1181 (1988).
 83. "Total Nuclear Reaction Probabilities for 2 to 6 MeV/Nucleon d and ^3He in Si," R.E. Warner, C.P. Browne, S.E. Darden, J.J. Kolata, A. Rollefson, P.A. Kumoto and A. Galonsky, *Phys. Rev. C* 37, 1884-1888 (1988).
 84. "Transition from quasi-elastic to deep-inelastic reactions in the $^{48}\text{Ti} + ^{208}\text{Pb}$ system," K.E. Rehm, A.M. Van den Berg, J.J. Kolata, D.G. Kovar, W. Kutschera, G. Rosner, G.S.F. Stephans, and J.L. Yntema, *Phys. Rev. C* 37, 2629-2646 (1988).
 85. "Neutron-Proton Correlations in the $^{16}\text{O} + ^{12}\text{C}$ Reaction," J.J. Kolata, R.A. Kryger, P.A. DeYoung, and F.W. Prosser, in Notas de Fisica, Vol. 11, No. 1, ed. A. Menchaca-Rocha, (Instituto de Fisica, UNAM, Mexico, 1988) pp. 147-170.
 86. "Sub-Barrier Fusion of $^{37}\text{Cl} + ^{58,60,62,64}\text{Ni}$," J.J. Vega, E.F. Aguilera, G. Murillo, J.J. Kolata, and A. Morsad, in Notas de Fisica, Vol. II, No. 1, ed. A. Menchaca-Rocha (Instituto de Fisica, UNAM, Mexico, 1988) pp.305-324.
 87. "A Radioactive Beam Facility Using a Large Superconducting Solenoid," F.D. Becchetti, W.Z. Liu, D.A. Roberts, J.W. Jänecke, J.J. Kolata, A. Morsad, X.J. Kong and R.E. Warner, Proceedings of the International Symposium on Heavy Ion Physics and Nuclear Astrophysical Problems, World Scientific Publishing Co. Ltd., Singapore, S. Kubono, M. Ishihara, T. Nomura, eds., p.277-286 (1989).
 88. "Quasielastic Scattering of ^{30}Si on ^{208}Pb and the Quadrupole Moments of 2^+ Levels in ^{30}Si ," R.J. Vojtech, J.J. Kolata, L.A. Lewandowski, K.E. Rehm, D.G. Kovar, G.S.F. Stephans, and M.F. Vineyard, *Phys. Rev. C* 39, 1377-1384 (1989).
 89. "A Radioactive Beam Facility Using a Large Superconducting Solenoid," J.J. Kolata, A. Morsad, X.J. Kong, R.E. Warner, F.D. Becchetti, W.Z. Liu, D.A. Roberts, and J.W. Jänecke, Nuclear Instruments and Methods in Physics Research B 40/41, p. 503-506 (1989).
 90. "Measurements of discrete nuclear reactions induced by a radioactive ^8Li beam," F.D. Becchetti, W.Z. Liu, D.A. Roberts, J.W. Jänecke, J.J. Kolata, A. Morsad, X.J. Kong and R.E. Warner, *Phys. Rev. (Rapid Communication)* C 40, R1104-1107 (1989).
 91. "A method for high-precision normalization of cross sections," E.F. Aguilera, J.J. Vega, E. Martinez, J.J. Kolata and A. Morsad, *Revista Mexicana de Fisica* 35, 609 (1989).
 92. "Observing Hydrogen Distributions in Thin Films by Nuclear Reaction Analysis (NRA)," G. Caskey, J.J. Kolata and P.L. Jolivet, Proceedings of the Society of Vacuum Coaters 32nd Annual Technical Conference, Albuquerque, NM, Society of Vacuum Coaters, 284-289 (1989).

93. "Systematics of 14 MeV ^8Li -induced Single Nucleon Transfer Reactions on Light Nuclei," W.Z. Liu, F.D. Becchetti, J. Brown, J.W. Jänecke, D.A. Roberts, J.J. Kolata, A. Morsad, R. Smith, X.J. Kong, and R.E. Warner, Proceedings of the First International Conference on Radioactive Nuclear Beams, World Scientific Publishing Co. Ltd., Singapore, W.D. Myers, J.M. Nitschke, E.B. Norman, eds., pgs. 499-506 (1989).
94. "Radioactive Nuclear Beam Coulomb Excitation," F.D. Becchetti, J. Brown, J.W. Jänecke, W.Z. Liu, D.A. Roberts, J.J. Kolata, R. Smith, K. Lamkin, A. Morsad, and R.E. Warner, Proceedings of the First International Conference on Radioactive Nuclear Beams, World Scientific Publishing Co. Ltd., Singapore, W.D. Myers, J.M. Nitschke, E.B. Norman, eds., pgs. 305-310 (1989).
95. "Elastic and Inelastic Scattering of ^8Li and ^6He Ions," J. Brown, F.D. Becchetti, W.Z. Liu, J.W. Jänecke, D.A. Roberts, J.J. Kolata, A. Morsad, and R.E. Warner, Proceedings of the First International Conference on Radioactive Nuclear Beams, World Scientific Publishing Co. Ltd., Singapore, W.D. Myers, J.M. Nitschke, E.B. Norman, eds., pgs. 372-379 (1989).
96. "Production and Use of a Radioactive ^7Be Beam," J.J. Kolata, R. Smith, K. Lamkin, A. Morsad, F.D. Becchetti, J. Brown, J.W. Jänecke, W.Z. Liu, and D.A. Roberts, Proceedings of the First International Conference on Radioactive Nuclear Beams, World Scientific Publishing Co. Ltd., Singapore, W.D. Myers, J.M. Nitschke, E.B. Norman, eds., pgs. 201-208 (1989).
97. "Fusion-evaporation cross section for $^{24}\text{Mg} + ^{24}\text{Mg}$ at $5 < E_{\text{lab}} < 9$ MeV/nucleon," F.W. Prosser, S.V. Reinert, D.G. Kovar, G. Rosner, G.S.F. Stephans, J.J. Kolata, C.F. Maguire, A. Szanto de Toledo and E. Szanto, *Phys. Rev. C* 40, 2600-2610 (1989).
98. "High-spin states in ^{75}Kr : Approaching superdeformation in the $A = 80$ region," D.F. Winchell, M.S. Kaplan, J.X. Saladin, H. Takai, J.J. Kolata and J. Dudek, *Phys. Rev. C* 40, 2672-2679 (1989).
99. "Sub-barrier fusion of $^{27}\text{Al} + ^{70,72,73,74,76}\text{Ge}$: Evidence for shape transition and structure effects," E.F. Aguilera, J.J. Vega, J.J. Kolata, A. Morsad, R.J. Tighe and X.J. Kong, *Phys. Rev. C* 41, 910-919 (1990).
100. "Sub-barrier Fusion: A tool to investigate nuclear shapes?," E.F. Aguilera, J.J. Vega, J.J. Kolata, A. Morsad, and R.J. Tighe, in Notas de Fisica, Vol. 13, No. 1, ed. E. Rafael Chevez Lomeli (Instituto de Fisica, UNAM, Mexico) pp. 1-18 (1990).
101. "Sub-barrier fusion of $^{28,30}\text{Si}$ with $^{24,26}\text{Mg}$," A. Morsad, J.J. Kolata, R.J. Tighe, X.J. Kong, E.F. Aguilera and J.J. Vega, *Phys. Rev. C* 41, 988-994 (1990).
102. "Energy dependence of fusion evaporation-residue cross sections in the $^{28}\text{Si} + ^{28}\text{Si}$ reaction," M.F. Vineyard, J.S. Bauer, C.H. Gosdin, R.S. Trotter, D.G. Kovar, C. Beck, D.J. Henderson, R.V.F. Janssens, B.D. Wilkins, G. Rosner, P. Chowdhury, H. Ikezoe, W. Kuhn, J.J. Kolata, J.D. Hinnefeld, C.F. Maguire, J.F. Mateja, F.W. Prosser, and G.S.F. Stephans, *Phys. Rev. C* 41, 1005-1013 (1990).

103. "Production of an isomeric excited radioactive nuclear beam," F.D. Becchetti, K. Ashktorab, J.A. Brown, J.S. Janecke, D.A. Roberts, J. Van Klinken, W.Z. Liu, J.J. Kolata, K. Lamkin and R.J. Smith, *Phys. Rev. C (Rapid Communication)* 42, R801-803 (1990).
104. "Sub-barrier fusion of ^{37}Cl with $^{58,60,62,64}\text{Ni}$," J.J. Vega, E.F. Aguilera, G. Murillo, J.J. Kolata, A. Morsad and X.J. Kong, *Phys. Rev. C* 42, 947-953 (1990).
105. "Production and use of radioactive ^7Be beams," R.J. Smith, J.J. Kolata, K. Lamkin, A. Morsad, K. Ashktorab, F.D. Becchetti, J. Brown, J.W. Jänecke, W.Z. Liu, and D.A. Roberts, *Nucl. Inst. and Methods in Physics Research A* 294, 26-30 (1990).
106. "Total nuclear reaction probabilities and average cross sections for 16 to 23 MeV ^6Li in Silicon," R.E. Warner, K.M. Berland, W.F. Rulla, D.A. Francis, J.J. Kolata, Z. Ayer, S.E. Darden, X.J. Kong, G. Liu, A. Morsad, S. McGimpsey, A.A. Rollefson, A. Galonsky, A. Nadasen, J.S. Winfield, and F.D. Becchetti, *Nuclear Physics A* 516, 416-428 (1990).
107. "Elastic scattering angular distributions for $^{40}\text{Ca} + ^{48}\text{Ca}$ near the Coulomb barrier," R.J. Tighe, J.J. Kolata, S. Dixit, G.-B. Liu, R.J. Vojtech, J.F. Liang, and J.C. Mahon, *Phys. Rev. (Rapid Communications) C* 42, 4, 1200-1202 (1990).
108. "Sub-barrier fusion and elastic scattering in S + Ni Systems," R.J. Tighe, J.J. Vega, G.-B. Liu, A. Morsad, J.J. Kolata, S.H. Fricke, H. Esbensen, and S. Landowne, *Phys. Rev. C* 42, 4, 1530-1539 (1990).
109. "Two particle correlations from neutron - light charged particle coincidences," R.A. Kryger, J.J. Kolata, W. Chung, S. Dixit, R.J. Tighe, J.J. Vega, P.A. DeYoung, C. Copi, J. Sarafa, D.G. Kovar, G.P. Gilfoyle, and S.K. Sigworth, *Phys. Rev. Lett.* 65, 2118-2121 (1990).
110. "Spectral function of p-n pairs in ^6Li from the $^6\text{Li} (p, p\alpha)pn$ reaction at 200 MeV," R.E. Warner, E. Cheung, C.P. Perdrisat, V. Punjabi, C.A. Davis, R. Helmer, A. Galonsky, L. Heilbronn, D. Krofchek, S.E. Darden, J.J. Kolata, F.D. Becchetti and P. Schwandt, *Phys. Rev. C* 42, 2143-2147 (1990).
111. Proc. Int. Workshop on the Interface between Nuclear Structure and Heavy-Ion Reaction Dynamics, J.J. Kolata and R.R. Betts eds., (IOP Publishing, Bristol, England) (1991).
112. "Sub-barrier fusion and near-barrier quasielastic scattering," J.J. Kolata, R.J. Tighe, S.H. Fricke, H. Esbensen, and S. Landowne in Proc. Int. Workshop on the Interface between Nuclear Structure and Heavy Ion Reaction Dynamics, J.J. Kolata and R.R. Betts eds., (IOP Publishing, Bristol, England), pp. 15-24 (1991).
113. "Scattering of ^6He from ^{197}Au , ^{nat}Ti , ^{27}Al , ^{nat}C , and ^9Be at $E=8-9$ MeV," R.J. Smith, J.J. Kolata, K. Lamkin, A. Morsad, K. Ashktorab, F.D. Becchetti, J.A. Brown, J.W. Jänecke, W.Z. Liu, and D.A. Roberts, *Phys. Rev. C* 43, 761-765 (1991).

114. "Elastic and Inelastic Scattering of ^8Li from ^{12}C ," R.J. Smith, J.J. Kolata, K. Lamkin, A. Morsad, F.D. Becchetti, J.A. Brown, W.Z. Liu, J.W. Jänecke, D.A. Roberts, and R.E. Warner, *Phys. Rev. C* 43, 2346-2352 (1991).
115. "Coulomb Excitation of ^8Li ," J.A. Brown, F.D. Becchetti, J.W. Jänecke, K. Ashktorab, D.A. Roberts, J.J. Kolata, R.J. Smith, J. Lamkin and R.E. Warner, *Phys. Rev. Lett.* 66, 2452-2455 (1991).
116. "Production and use of ^6He , ^7Be , ^8Li , ^{12}B and metastable nuclear beams," F.D. Becchetti, J.A. Brown, K. Ashktorab, J.W. Jänecke, W.Z. Liu, D.A. Roberts, R.J. Smith, J.J. Kolata, K. Lamkin, A. Morsad, and R.E. Warner, *Nucl. Inst. and Methods in Physics Research B* 56/57, 554-558 (1991).
117. "Search for Three-Photon Final State Resonances in Low Energy e^+e^- Scattering," M. Skalsey and J.J. Kolata, *Phys. Rev. Lett.* 68, 456 (1992).
118. "Experiments with Radioactive Nuclear Beams at the University of Notre Dame," J.J. Kolata, Proceedings of the International Symposium on Structure and Reactions of Unstable Nuclei, K. Ikeda and Y. Suzuki, eds., (World Scientific, Singapore), pp. 252-259 (1992).
119. "Measurement of the $^6\text{Li} + \text{natSi}$ reaction cross section at 18-28 MeV with a magnetic spectrograph and position-sensitive Si detector," R.E. Warner, R.J. Orr, W.F. Waite, C.P. Browne, S.E. Darden, A. Rollefson, J.J. Kolata, L. Van Wormer, A. Galonsky, D. Sackett, and F.D. Becchetti, *Nucl. Inst. and Methods in Physics Research B* 314, 113-118 (1992).
120. "Experiments with Radioactive Nuclear Beams at the University of Notre Dame," J.J. Kolata, Proceedings of the International Conference on New Nuclear Physics with Advanced Techniques, F.A. Beck, S. Kossionides, and C.A. Kalfas, eds., (World Scientific, Singapore), pp. 349-353 (1992).
121. "Sub-barrier Fusion of O + Ge Systems," E.F. Aguilera, J.J. Vega, J.J. Kolata, and R.J. Tighe, *Revista Mexicana de Fisica* 38, 63-66 (1992).
122. "Quasielastic Scattering of ^{11}Li and ^{11}C from ^{12}C at 60 MeV/Nucleon," J.J. Kolata, M. Zahar, R. Smith, K. Lamkin, M. Belbot, R.J. Tighe, B.M. Sherrill, N.A. Orr, J.S. Winfield, J.A. Winger, S.J. Yennello, G.R. Satchler and A.H. Wuosmaa, *Phys. Rev. Lett.* 69, 2631-2634 (1992).
123. "Yrast decays in ^{43}K ," R.L. Kozub, C.R. Bybee, M.M. Hindi, J.F. Schriener, Jr., R. Holzmann, R.V.F. Janssens, T.L. Khoo, W.C. Ma, M.W. Drigert, U. Garg and J.J. Kolata, *Phys. Rev. C* 46, 1671-1676 (1992).
124. "Neutron-charged-particle correlations in the 3.8 MeV per nucleon $^{16}\text{O} + ^{12}\text{C}$ and 13.4 MeV per nucleon $^{16}\text{O} + ^{27}\text{Al}$ reactions," R.A. Kryger, J.J. Kolata, W. Chung, S. Dixit, R.J. Tighe, J.J. Vega, P.A. DeYoung, C. Copi, J. Sarafa, G.P. Gilfoyle, and S.K. Sigworth, *Phys. Rev. C* 46, 1887-1902 (1992).

125. "Reaction rates for ^8Li (p, α) and ^8Li ($p, n\alpha$) and their effect on primordial nucleosynthesis," F.D. Becchetti, J.A. Brown, W.Z. Liu, J.W. Janecke, D.A. Roberts, J.J. Kolata, R.J. Smith, K. Lamkin, A. Morsad, R.E. Warner, R.N. Boyd, and J.D. Kalen, *Nucl. Phys. A* 550, 507-516 (1992).
126. "Experiments with radioactive beams at the University of Notre Dame," J.J. Kolata, *Revista Mexicana* 38, 87-94 (1992).
127. "Basic research with low-energy accelerator systems," J.J. Kolata, *Revista Mexicana de Fisica* 38, 739-752 (1992).
128. "Cross section for the primordial reaction $^8\text{Li}(p,n)^8\text{Be}(g.s.)$ at $E_{c.m.} = 1.5$ Mev," D.D. Caussyn, N.R. Fletcher, K.W. Kemper, E.E. Towers, J.J. Kolata, K. Lamkin, R.J. Smith, F.D. Becchetti, J.A. Brown, J.W. Janecke, D.A. Roberts, and D.L. Gay, *Phys. Rev. C* 47, 387-391 (1993).
129. "Systematics of ^8Li -induced radioactive beam reactions: $E=13-20$ MeV," F.D. Becchetti, W.Z. Liu, K. Ashktorab, J.F. Bajema, J.A. Brown, J.W. Janecke, D.A. Roberts, J.J. Kolata, K.L. Lamkin, A. Morsad, R.J. Smith, X.J. Kong and R.E. Warner, *Phys. Rev. C* 48, 308-318 (1993).
130. "Electromagnetic excitation of ^{11}Li ," D. Sackett, K. Ieki, A. Galonsky, C.A. Bertulani, H. Esbensen, J.J. Kruse, W.G. Lynch, D.J. Morrissey, N.A. Orr, B.M. Sherrill, H. Schulz, A. Sustich, J.A. Winger, F. Deák, A. Horváth, A. Kiss, Z. Seres, J.J. Kolata, R.E. Warner and D.L. Humphrey, *Phys. Rev. C* 48, 118-135 (1993).
131. "Coulomb dissociation of ^{11}Li ," K. Ieki, D. Sackett, A. Galonsky, C.A. Bertulani, J.J. Kruse, W.G. Lynch, D.J. Morrissey, N.A. Orr, H. Schulz, B.M. Sherrill, A. Sustich, J.A. Winger, F. Deák, A. Horvath, A. Kiss, Z. Seres, J.J. Kolata, R.E. Warner, and D.L. Humphrey, *Phys. Rev. Lett.* 70, 730-734 (1993).
132. "Possible signatures of nuclear-molecular formation in $\text{O} + \text{C}$ systems," R. J. Tighe, J.J. Kolata, M. Belbot, and E.F. Aguilera, *Phys. Rev. C* 47, 2699-2716 (1993).
133. " ^2H -induced reactions on ^8Li primordial nucleosynthesis," M.J. Balbes, M.M. Farrell, R.N. Boyd, X. Gu, M. Hencheck, J.D. Kalen, C.A. Mitchell, J.J. Kolata, K. Lamkin, R. Smith, R.J. Tighe, K. Ashktorab, F.D. Becchetti, J. Brown, D. Roberts, T.F. Wang, D. Humphrey, G. Vourvopoulos, and M.S. Islam, *Phys. Rev. Lett.* 71, 3931-3934 (1993).
134. "Elastic Scattering and Fragmentation of Halo Nuclei," James J. Kolata, Proceedings RIKEN International Workshop on Heavy-Ion Reactions with Neutron-Rich Beams, M. Ishihara, N. Takigawa and S. Yamaji, eds. (World Scientific, Singapore), pp. 174-182 (1993).

135. "Momentum distributions for $^{12,14}\text{Be}$ fragmentation," M. Zahar, M. Belbot, J.J. Kolata, K. Lamkin, R. Thompson, N.A. Orr, J.H. Kelley, R.A. Kryger, D.J. Morrissey, B.M. Sherrill, J.A. Winger, J.S. Winfield and A.H. Wuosmaa, *Phys. Rev. C* **48**, R1484-R1487 (1993).
136. "Radioactive Beam Induced 'Quasi-elastic' Neutron Transfer: $^8\text{Li} + ^{58}\text{Ni}$ at 19.6 MeV," F.D. Becchetti, J.F. Bajema, K. Ashktorab, J.A. Brown, J.W. Janecke, D.A. Roberts, J.J. Kolata, K. Lamkin, R.J. Smith, and R.E. Warner, Proceedings of the Third International Conference on Radioactive Nuclear Beams, D.J. Morrissey, ed., (Editions Frontieres, Gif-sur-Yvette, France), pp. 301-306 (1993).
137. "Elastic Scattering and Fragmentation of $^{12,14}\text{Be}$," J.J. Kolata, M. Zahar, M. Belbot, R. Thompson, K. Lamkin, B.M. Sherrill, J.A. Winger, N.A. Orr, J.S. Winfield, and A.H. Wuosmaa, Proceedings of the Third International Conference on Radioactive Nuclear Beams, D.J. Morrissey, ed., (Editions Frontieres, Gif-sur-Yvette, France), pp. 351-356 (1993).
138. "Quasielastic Scattering of $^{12,14}\text{Be}$ on ^{12}C ," M. Zahar, M. Belbot, J.J. Kolata, K. Lamkin, R. Thompson, J.H. Kelley, R.A. Kryger, D.J. Morrissey, N.A. Orr, B.M. Sherrill, J.S. Winfield, J.A. Winger, and A.H. Wuosmaa, *Phys. Rev. C* **49**, 1540-1544 (1994).
139. "Energy resolution of allene doped liquid argon detectors for ions of energy 23-34 MeV/amu," A. Hitachi, J.A. LaVerne, J.J. Kolata and T. Doke, *Nucl. Inst. and Methods in Physics Research A* **340**, 546-550 (1994).
140. "Elastic scattering of 10 MeV ^6He from ^{12}C , $^{\text{nat}}\text{Ni}$, and ^{197}Au ," R.E. Warner, F.D. Becchetti, J.W. Janecke, D.A. Roberts, D. Butts, C.L. Carpenter, J.M. Fetter, A. Muthukrishnan, J.J. Kolata, K. Lamkin, M. Belbot, M. Zahar, A. Galonsky, K. Ieki, and P. Zecher, *Physical Review C* **51**, 178-181 (1995).
141. " ^8Li (α, n) ^{11}B reaction and primordial nucleosynthesis," X. Gu, R.N. Boyd, M.M. Farrell, J.D. Kalen, C.A. Mitchell, J.J. Kolata, M. Belbot, K. Lamkin, K. Ashktorab, F.D. Becchetti, J. Brown, D. Roberts, K. Kimura, I. Tanihata, K. Yoshida, M.S. Islam, *Phys. Lett. B* **343**, 31-35 (1995).
142. "Cross sections and reaction rates of $d + ^8\text{Li}$ reactions involved in Big Bang nucleosynthesis," M.J. Balbes, M.M. Farrell, R.N. Boyd, X. Gu, M. Hencheck, J.D. Kalen, C.A. Mitchell, J.J. Kolata, K. Lamkin, R. Smith, R. Tighe, K. Ashktorab, F.D. Becchetti, J. Brown, D. Roberts, T.-F. Wang, D. Humphrey, G. Vourvopoulos, and M.S. Islam, *Nucl. Phys. A* **584**, 315-334 (1995).
143. " β -delayed neutron decay of ^{14}Be ," M.D. Belbot, J.J. Kolata, K. Lamkin, R.J. Tighe, M. Zahar, R. Harkewicz, D.J. Morrissey, N.A. Orr, R.M. Ronningen, B.M. Sherrill, J.A. Winger, and M. Carpenter, *Phys. Rev. C* **51**, 2372-2380 (1995).
144. "Study of the β -delayed neutron emission of ^{19}C ," A. Ozawa, G. Raimann, R.N. Boyd, F.R. Chloupek, M. Fujimaki, K. Kimura, H. Kitagawa, T. Kobayashi, J.J. Kolata, S. Kubono, I. Tanihata, Y. Watanabe, K. Yoshida, *Nucl. Phys. A* **592**, 244-256 (1995).
145. "Nuclear structure effects in the sub-barrier fusion of $^{16}\text{O} + ^{70,72,73,74,76}\text{Ge}$," E.F. Aguilera, J.J. Kolata, and R.J. Tighe, *Phys. Rev. C* **52**, 3103-3113 (1995).

146. "Levels in ^{17}C Above the $^{16}\text{C}+\text{neutron}$ threshold," G. Raimann, A. Ozawa, R.N. Boyd, F.R. Chloupek, M. Fujimaki, K. Kimura, T. Kobayashi, J.J. Kolata, S. Kubono, I. Tanihata, Y. Watanabe, and K. Yoshida, *Phys. Rev. C* 53, 453-458 (1996)
147. "Small angle neutron-neutron correlation functions for the $^{16}\text{O}+^{27}\text{Al}$ reaction at 220 MeV," P.A. DeYoung, R. Bennink, T. Butler, W. Chung, C. Dykstra, G. Gilfoyle, J. Hinnefeld, M. Kaplan, J.J. Kolata, R.A. Kryger, J. Kugi, C. Mader, M. Nimchek, P. Santi, and A. Snyder, *Nucl. Phys. A* 597, 127-135 (1996).
148. "Sub-Coulomb dissociation of ^8B ," J. von Schwarzenberg, J.J. Kolata, D. Peterson, P. Santi, M. Belbot, and J.D. Hinnefeld, *Phys. Rev. C. Rap. Comm.* 53, R2598-R2601 (1996).
149. "Quasielastic scattering of ^9Li on ^{12}C ," M. Zahar, M. Belbot, J.J. Kolata, K. Lamkin, D.J. Morrissey, B.M. Sherrill, M. Lewitowicz, A.H. Wuosmaa, J.S. Al-Khalili, J.A. Tostevin, and I.J. Thompson, *Phys. Rev. C* 54, 1262-1266 (1996).
150. "Is there a bound dineutron in ^{11}Li ?" K. Ieki, A. Galonsky, D. Sackett, J.J. Kruse, W.G. Lynch, D.J. Morrissey, N.A. Orr, B.M. Sherrill, J.A. Winger, F. Deák, A. Horváth, A. Kiss, Z. Seres, J.J. Kolata, R.E. Warner, D.L. Humphrey, *Phys. Rev. C* 54, 1589-1591 (1996).
151. "Total reaction and 2n-removal cross sections of 20-60A MeV $^{4,6,8}\text{He}$, $^{6-9,11}\text{Li}$, and ^{10}Be on Si," R.E. Warner, R.A. Patty, P.M. Voyles, A. Nadasen, F.D. Becchetti, J.A. Brown, H. Esbensen, A. Galonsky, J.J. Kolata, J. Kruse, M.Y. Lee, R.M. Ronningen, P. Schwandt, J. von Schwarzenberg, B.M. Sherrill, K. Subotic, J. Wang and P. Zecher, *Phys. Rev. C* 54, 1700-1709 (1996).
152. "Scintillation and ionization in allene-doped liquid argon irradiated with ^{18}O and ^{36}Ar ions of 30 MeV/u," J.A. LaVerne, A. Hitachi, J.J. Kolata, and Tadayoshi Doke, *Phys. Rev. B* 54, 15 724 - 15 729 (1996-II).
153. "Soft dipole resonance in exotic nuclei?," A. Galonsky, J.J. Kruse, W.G. Lynch, D.J. Morrissey, N. Orr, J. Ottarson, D. Sackett, B.M. Sherrill, J. Wang, J. Winger, P. Zecher, K. Ieki, Y. Iwata, F. Deák, A. Horvath, A. Kiss, Z. Seres, J.J. Kolata, R.E. Warner, H. Schelin, and D.L. Humphrey, *Nucl. Phys. A* 599, 353c-366c (1996).
154. "Subcoulomb Dissociation of ^8B ," J.J. Kolata, J. von Schwarzenberg, D. Peterson, P. Santi, and J.D. Hinnefeld, Proceedings of the Fourth International Conference on Radioactive Nuclear Beams, S. Kubono, T. Kobayashi, and I. Tanihata, eds., *Nucl. Phys. A* 616, 137c-141c (1997).
155. "Experimental techniques in heavy ion fusion: II. particle technique," E.F. Aguilera, J.J. Vega, and J.J. Kolata, *Rev. Mex. de Fis.* 43, 622-633 (1997).
156. "Low-Energy Radioactive Beam Experiments Using the UM-UND Solenoid RNB Apparatus at the UND Tandem: Past, Present, and Future," F.D. Becchetti and J.J. Kolata, Proceedings of the 14th International Conference on the Application of Accelerators in Research and Industry, J.L. Duggan and I.L. Morgan, eds. (AIP Press, New York) pp. 369-375 (1997).

157. "Twinsol: A Dual Superconducting Solenoid System for Low-Energy Radioactive Nuclear Beam Research," M.Y. Lee, F.D. Becchetti, J.M. Holmes, T.W. O'Donnell, M.A. Ratajczak, D.A. Roberts, J.A. Zimmerman, J.J. Kolata, L.O. Lamm, J. von Schwarzenberg, and M. Wiescher, Proceedings of the 14th International Conference on the Application of Accelerators in Research and Industry, J.L. Duggan and I.L. Morgan, eds. (AIP Press, New York) pp. 397-400 (1997).
158. " β decay of the neutron-rich isotope ^{14}Be ," M. Belbot, J.J. Kolata, M. Zahar, N. Aoi, M. Hirai, M. Ishahara, H. Okuno, H. Sakurai, T. Teranishi, T. Kishida, G. Liu, T. Nakamura, Y. Watanabe, A. Yoshida, E. Ideguchi, H. Miyatake, S. Shimoura, and S.S. Yamamoto, *Phys. Rev. C* 56, 3038-3044 (1997).
159. "Elastic and quasielastic scattering of ^8He from ^{12}C ," J.A. Tostevin, J.S. Al-Khalili, M. Zahar, M. Belbot, J.J. Kolata, K. Lamkin, D.J. Morrissey, B.M. Sherrill, M. Lewitowicz, and A.H. Wuosmaa, *Phys. Rev. C* 56 (Rapid Communications), R2929-R2933 (1997).
160. " $^6\text{He}+^{209}\text{Bi}$ fusion-fission reaction," J.J. Kolata, V. Guimarães, D. Peterson, P. Santi, R. White-Stevens, J. von Schwarzenberg, J.D. Hinnefeld, E.F. Aguilera, E. Martinez-Quiroz, D.A. Roberts, F.D. Becchetti, M.Y. Lee, and R.A. Kryger, *Phys. Rev. C* 57 (Rapid Communications), R6-R9 (1998).
161. "Measurement of the $^8\text{Li}(n, \gamma)^9\text{Li}$ cross section at astrophysical energies by reverse kinematics," P.D. Zecher, A. Galonsky, S.J. Gaff, J.J. Kruse, G. Kunde, E. Tryggstad, J. Wang, R.E. Warner, D.J. Morrissey, K. Ieki, Y. Iwata, F. Deák, A. Horvath, A. Kiss, Z. Seres, J.J. Kolata, J. von Schwarzenberg, and H. Schelin, *Phys. Rev. C* 57, 959-966 (1998).
162. "Reaction cross sections in Si of light proton-halo candidates ^{12}N and ^{17}Ne ," R.E. Warner, H. Thirumurthy, J. Woodroffe, F.D. Becchetti, J.A. Brown, B.S. Davids, A. Galonsky, J.J. Kolata, J.J. Kruse, M.Y. Lee, A. Nadasen, T.W. O'Donnell, D.A. Roberts, R.M. Ronningen, C. Samanta, P. Schwandt, J. von Schwarzenberg, M. Steiner, K. Subotic, J. Wang, J.A. Zimmerman, *Nucl. Phys. A* 635, 292-304 (1998).
163. "Subbarrier fusion of ^6He with ^{209}Bi ," J.J. Kolata, V. Guimarães, D. Peterson, P. Santi, R. White-Stevens, P.A. DeYoung, G.F. Peaslee, B. Hughey, B. Atalla, M. Kern, P.L. Jolivet, J.A. Zimmerman, M.Y. Lee, F.D. Becchetti, E.F. Aguilera, E. Martinez-Quiroz and J.D. Hinnefeld, *Phys. Rev. Lett.* 81, 4580-4583 (1998).
164. "Fusion of a neutron skin nucleus: The $^{209}\text{Bi}(^6\text{He}, 4n)$ reaction," P.A. DeYoung, B. Hughey, P.L. Jolivet, G.F. Peaslee, J.J. Kolata, V. Guimarães, D. Peterson, P. Santi, H.C. Griffin, J.A. Zimmerman, J.D. Hinnefeld, *Phys. Rev. C* 58, 3442-3444 (1998).
165. "First results from the *Twinsol* RNB facility," J.J. Kolata, *Rev. Mex. De Fis.* 44, 92-96 (1998).
166. "Production of exotic (or polarized) low-energy radioactive beams via two successive nuclear reactions: tertiary beams," F.D. Becchetti, M.Y. Lee, T.W. O'Donnell, D.A. Roberts, J.A. Zimmerman, J.J. Kolata, V. Guimarães, D. Peterson, and P. Santi, *Nucl. Instr. and Meth. in Phys. Res. A* 422, 505-509 (1999).

167. “Study of nuclear reactions with intense, high-purity, low-energy radioactive ion beams using a versatile multi-configuration dual superconducting-solenoid system,” M.Y. Lee, F.D. Becchetti, T.W. O’Donnell, D.A. Roberts, J.A. Zimmerman, V. Guimarães, J.J. Kolata, D. Peterson, P. Santi, P.A. DeYoung, G.F. Peaslee, and J.D. Hinnefeld, *Nucl. Instr. and Meth. in Phys. Res. A* 422, 536-540 (1999).
168. “One-Neutron Knockout from Individual Single-Particle States of ^{11}Be ,” T. Aumann, A. Navin, D.P. Balamuth, D. Bazin, B. Blank, B.A. Brown, J.E. Bush, J.A. Caggiano, B. Davids, T. Glasmacher, V. Guimarães, P.G. Hansen, R.W. Ibbotson, D. Karnes, J.J. Kolata, V. Maddalena, B. Pritychenko, H. Scheit, B.M. Sherrill, and J.A. Tostevin, *Phys. Rev. Lett.* 84, 35-38 (2000).
169. “Evidence for nonequilibrium proton emission in a low-energy heavy-ion reaction ,” P.A. DeYoung, M.J. Goupell, B.V. Atallah, J.A. Haglund, P.L. Jolivette, M.K. MacDermaid, G.F. Peaslee, J.J. Kolata, E.D. Berners, D. Peterson, J. von Schwarzenberg, and J.D. Hinnefeld, *Physical Review C* 61, 024603-1 – 024603-4 (2000).
170. “Nuclear and Coulomb Interaction in ^8B Breakup at sub-Coulomb Energies”, V. Guimarães, J.J. Kolata, D. Peterson, P. Santi, R.H. White-Stevens, and S.M. Vincent, *Phys. Rev. Lett.* 84, 1862 – 1865 (2000).
171. “Transfer and/or Breakup Modes in the $^6\text{He}+^{209}\text{Bi}$ Reaction Near the Coulomb Barrier”, E.F. Aguilera, J.J. Kolata, F.M. Nunes, F.D. Becchetti, P.A. DeYoung, M. Goupell, V. Guimarães, B. Hughey, M.Y. Lee, D. Lizcano, E. Martinez-Quiroz, A. Nowlin, T.W. O’Donnell, G.F. Peaslee, D. Peterson, P. Santi, and R. White-Stevens, *Phys. Rev. Lett.* 84, 5058-5061 (2000).
172. “Proton Halo in ^8B ”, J.J. Kolata, V. Guimarães, D. Peterson, P. Santi, R. H. White-Stevens, S.M. Vincent, F.D. Becchetti, M.Y. Lee, T.W. O’Donnell, D.A. Roberts, and J.A. Zimmerman, *Rev. Mex. De Fis.* 46, Suplemento 1, 113-115 (2000).
173. “Spectroscopy of $^{13,14}\text{B}$ via the one-neutron knockout reaction”, V. Guimarães, J.J. Kolata, D. Bazin, B. Blank, B.A. Brown, T. Glasmacher, P.G. Hansen, R.W. Ibbotson, D. Karnes, V. Maddalena, A. Navin, B. Pritychenko, B.M. Sherrill, D.P. Balamuth, and J.E. Bush, *Phys. Rev. C* 61, 064609 (2000).
174. “Total reaction and neutron-removal cross sections of (30-60)A MeV He and Li isotopes on Pb”, R.E. Warner, M.H. McKinnon, N.C. Shaner, F.D. Becchetti, A. Nadasen, D.A. Roberts, J.A. Brown, A. Galonsky, J.J. Kolata, R.M. Ronnigen, M. Steiner, and K. Subotic, *Phys. Rev. C* 62, 024608 (2000).
175. “Angular momentum in the $^6\text{He}+^{209}\text{Bi}$ reaction deduced from isomer ratio measurements,” P.A. DeYoung, B. Atallah, B. Hughey, P.L. Jolivette, M. Kern, G.F. Peaslee, V. Guimarães, J.J. Kolata, D. Peterson, P. Santi, R. White-Stevens, E.F. Aguilera, E. Martinez-Quiroz, F.D. Becchetti, M.Y. Lee, J.A. Zimmerman, J.D. Hinnefeld, and O.A. Capurro, *Phys. Rev. C* 62, 047601 (2000).

176. “Dissociation of ^8He ,” Y. Iwata, K. Ieki, A. Galonsky, J.J. Kruse, J. Wang, R.H. White-Stevens, E. Tryggstad, P.D. Zecher, F. Deák, Á. Horváth, Á. Kiss, Z. Seres, J.J. Kolata, J. von Schwarzenberg, R.E. Warner, and H. Schelin, *Phys. Rev. C* **62**, 064311 (2000).
177. “Breakup of ^8B at sub-Coulomb energies,” J.J. Kolata, V. Guimarães, D. Peterson, P. Santi, R.H. White-Stevens, S.M. Vincent, F.D. Becchetti, M.Y. Lee, T.W. O’Donnell, D.A. Roberts, and J.A. Zimmerman, *Phys. Rev. C* **63**, 024616 (2001).
178. “Sub-barrier fusion of $^{37}\text{Cl} + ^{70,72,73,74,76}\text{Ge}$ ” E. Martinez-Quiroz, E.F. Aguilera, J.J. Kolata, and M. Zahar, *Phys. Rev. C* **63**, 054611 (2001).
179. “Systematics of transfer/breakup yields for weakly bound light nuclei,” J.J. Kolata, *Phys. Rev. C* **63**, 061604(R) (2001).
180. “Elastic scattering and transfer in the $^6\text{He} + ^{209}\text{Bi}$ system below the Coulomb barrier,” E.F. Aguilera, J.J. Kolata, F.D. Becchetti, P.A. DeYoung, J.D. Hinnefeld, Á. Horváth, L.O. Lamm, Hye-Young Lee, D. Lizcano, E. Martinez-Quiroz, P. Mohr, T.W. O’Donnell, D.A. Roberts, and G. Rogachev, *Phys. Rev. C* **63**, 061603 (R) (2001).
181. “Restrictions on the stellar $^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ rate from elastic α - ^{12}C scattering,” L. Buchmann, P. Tischhauser, R.E. Azuma, R. Detwiler, U. Giesen, J. Görres, M. Heil, J. Hinnefeld, F. Käppeler, J.J. Kolata, H. Schatz, A. Shotter, E. Stech, S. Vouzoukas, and M. Wiescher, *Nucl. Phys. A* **688**, 259-262 (2001).
182. “Transfer Breakup and Fusion Reactions of ^6He with ^{209}Bi Near the Coulomb Barrier,” J.J. Kolata, Proceedings of the International Workshop on Fusion Dynamics at the Extremes, Dubna, Russia, 25-27 May, 2000, Yu. Ts. Oganessian and V.I. Zagrabae, eds. (World Scientific, Singapore) pp. 318-326 (2001).
183. “A Dual 6T Persistent-Mode SC Solenoid Ion-Optical System for Radioactive Nuclear Beam Research,” F.D. Becchetti, M.Y. Lee, D.A. Roberts, T.W. O’Donnell, J.A. Zimmerman, J.J. Kolata, D. Peterson, P. Santi, V. Guimarães, and L.O. Lamm, Proceedings of the Conference on Applied Superconductivity, Virginia City, Virginia, (September 2000), *IEEE Transactions on Superconductivity*, Vol. 11, Issue 1, Part 2, pp. 1601-1604 (2001).
184. “Doubling of α -cluster states in ^{22}Ne ,” G.V. Rogachev, V.Z. Goldberg, T. Lönnroth, W.H. Trzaska, S.A. Fayans, K.-M. Källman, J.J. Kolata, M. Mutterer, M.V. Rozhkov, and B.B. Skorodumov, *Phys. Rev. C* **64**, 051302(R) (2001).
185. “Proton elastic scattering from ^7Be at low energies,” G.V. Rogachev, J.J. Kolata, F.D. Becchetti, P.A. DeYoung, M. Hencheck, K. Helland, J.D. Hinnefeld, B. Hughey, P.L. Jolivet, L.M. Kiessel, H.-Y. Lee, M.Y. Lee, T.W. O’Donnell, G.F. Peaslee, D. Peterson, D.A. Roberts, P. Santi, and S.A. Shaheen, *Phys. Rev. C* **64**, 061601(R) (2001).
186. “Total reaction and neutron-removal cross sections of (30—60)A MeV Be isotopes on Si and Pb,” R.E. Warner, M.H. McKinnon, J.S. Needleman, N.C. Shaner, F.D. Becchetti, D.A. Roberts, A. Galonsky, R.M. Ronningen, M. Steiner, J.A. Brown, J.J. Kolata, A. Nadasen, and K. Subotic, *Phys. Rev. C* **64**, 044611 (2001).

187. "Direct Measurement of the L/K Ratio in ${}^7\text{Be}$ Electron Capture," P.A. Voytas, C. Ternovan, M. Galeazzi, D. McCammon, J.J. Kolata, P. Santi, D. Peterson, V. Guimarães, F.D. Becchetti, M.Y. Lee, T.W. O'Donnell, D.A. Roberts, and S. Shaheen, *Phys. Rev. Lett.* **88**, 1, 012501 (2002).
188. "Elastic $\alpha - {}^{12}\text{C}$ Scattering and the ${}^{12}\text{C}(\alpha, \gamma){}^{16}\text{O}$ $E2$ S Factor," P. Tischhauser, R.E. Azuma, L. Buchmann, R. Detwiler, U. Giesen, J. Görres, M. Heil, J. Hinnefeld, F. Käppeler, J.J. Kolata, H. Schatz, A. Shotter, E. Stech, S. Vouzoukas, and M. Wiescher, *Phys. Rev. Lett.* **88**, 072501 (2002).
189. "Measurement of the cross section of the ${}^8\text{Li}(d, \alpha){}^6\text{He}$ reaction of possible relevance to big bang nucleosynthesis," L. Sahin, R.N. Boyd, A.L. Cole, M. Famiano, R.T. Güray, A. St. J. Murphy, N. Özkan, J.J. Kolata, V. Guimarães, M. Hencheck, *Phys. Rev. C* **65**, 038801 (2002).
190. "Dissociation of ${}^6\text{He}$," J. Wang, A. Galonsky, J.J. Kruse, E. Tryggestad, R.H. White-Stevens, P.D. Zecher, Y. Iwata, K. Ieki, Á. Horváth, F. Deák, Á. Kiss, Z. Seres, J.J. Kolata, J. von Schwarzenberg, R.E. Warner, and H. Schelin, *Phys. Rev. C* **65**, 034306 (2002).
191. "Field Effects on Ionic and Excitonic Quenching for Heavy Ions in Liquid Ar," A. Hitachi, J.A. LaVerne, J.J. Kolata, and T. Doke, *IEEE Transactions on Dielectrics and Electrical Insulation*, **9**, 1, 45-47 (2002).
192. "Transfer, breakup, and fusion reactions of ${}^6\text{He}$ with ${}^{209}\text{Bi}$ near the Coulomb barrier," J.J. Kolata, *Eur. Phys. J. A* **13**, 117-121 (2002).
193. "Cross Section for the Astrophysical ${}^{14}\text{C}_{(n, \gamma)}{}^{15}\text{C}$ Reaction via the Inverse Reaction," Á. Horváth, J. Weiner, A. Galonsky, F. Deák, Y. Higurashi, K. Ieki, Y. Iwata, Á. Kiss, J.J. Kolata, Z. Seres, J. von Schwarzenberg, H. Schelin, S. Takeuchi, S. Typel, and R.E. Warner, *Astrophysical Journal* **570**, 926-933 (2002).
194. "Elastic scattering and transfer in the ${}^8\text{Li}+{}^{208}\text{Pb}$ system near the Coulomb barrier," J.J. Kolata, V.Z. Goldberg, L.O. Lamm, M.G. Marino, C.J. O'Keeffe, G. Rogachev, E.F. Aguilera, H. García-Martínez, E. Martínez-Quiroz, P. Rosales, F.D. Becchetti, T.W. O'Donnell, D.A. Roberts, J.A. Brown, P.A. DeYoung, J.D. Hinnefeld, and S.A. Shaheen, *Phys. Rev. C* **65**, 054616 (5 pages) (2002).
195. "Gamma-Ray Spectroscopy with a low-energy ${}^6\text{He}$ radioactive ion beam," S.M. Vincent, A. Aprahamian, J.J. Kolata, L.O. Lamm, V. Guimarães, R.C. de Haan, D. Peterson, P. Santi, A. Teymurazyan, F.D. Becchetti, T.W. O'Donnell, M. Lee, D.A. Roberts, J.A. Zimmerman, and J.A. Brown, *Nucl. Instr. Methods in Phys. Res. A*, **491**, 426-436 (2002).
196. "Structure of the ${}^{10}\text{Li}$ nucleus investigated via the ${}^9\text{Li}(d, p){}^{10}\text{Li}$ reaction," P. Santi, J.J. Kolata, V. Guimarães, D. Peterson, R. White-Stevens, E. Rischette, D. Bazin, B.M. Sherrill, A. Navin, P.A. DeYoung, P.L. Jolivet, G.F. Peaslee, R.T. Guray, *Phys. Rev. C* **67**, 024606-17 (2003).
197. "Experimental determination of the surface density for the ${}^6\text{He}$ exotic nucleus," L.R. Gasques, L.C. Chamon, D. Pereira, V. Guimarães, A. Lépine-Szily, M.A.G. Alvarez, E.S. Rossi, Jr., C.P. Silva, B.V. Carlson, J.J. Kolata, L. Lamm, D. Peterson, P. Santi, S. Vincent, P.A. De Young, and G. Peasley, *Phys. Rev. C* **67**, 024602-6 (2003).

198. “Astrophysical reaction rate for the ${}^8\text{Li}(n,\gamma){}^9\text{Li}$ reaction,” Hiroshi Kobayashi, Kazuo Ieki, Ákos Horváth, Aaron Galonsky, Nelson Carlin, Ferenc Deák, Tomoko Gomi, Valdir Guimarães, Yoshihide Higurashi, Yoshiyuki Iwata, Ádám Kiss, James J. Kolata, Thomas Rauscher, Hugo Schelin, Zoltan Seres, and Robert Warner, *Phys. Rev. C* 67, 015806-12 (2003).
199. “Elastic scattering of ${}^9\text{Li}$ and ${}^{11}\text{Li}$ from ${}^{12}\text{C}$ at 50 MeV per nucleon,” D. Peterson, J.J. Kolata, P. Santi, J. von Schwarzenberg, D. Bazin, and B. Sherrill, *Phys. Rev. C* 67, 014601-6 (2003).
200. “ $T=5/2$ states in ${}^9\text{Li}$: Isobaric analog states of ${}^9\text{He}$,” G.V. Rogachev, V.Z. Goldberg, J.J. Kolata, G. Chubarian, D. Aleksandrov, A. Fomichev, M.S. Golovkov, Yu. Ts. Oganessian, A. Rodin, B. Skorodumov, R.S. Slepnev, G. Ter-Akopian, W.H. Trzaska, and R. Wolski, *Phys. Rev. C* 67, 041603(R) (2003).
201. “Measurements of astrophysical neutron capture cross sections via the inverse reaction,” Á. Horváth, A. Galonsky, N. Carlin, F. Deák, T. Gomi, V. Guimarães, Y. Higurashi, K. Hiroshi, K. Ieki, Y. Iwata, Á. Kiss, J. Kolata, T. Rauscher, H. Scheling, J. von Schwarzenberg, Z. Seres, S. Takeuchi, S. Typel, R. Warner, and J. Weiner, *Nucl. Phys. A* 719, 9c (2003).
202. “Searching for resonances in the unbound ${}^6\text{Be}$ and ${}^5\text{Li}$ nuclei,” V. Guimarães, R. Kuramoto, R. Lichtenthäler, G. Amadio, E. Benjamin, P.N. de Faria, A. Lépine-Szily, G.F. Lima, J.J. Kolata, G. Rogachev, F.D. Becchetti, T. O’Donnell, Y. Chen, J. Hinnefeld, and J. Lupton, *Nucl. Phys. A* 722, 341c (2003).
203. “The TwinSol low-energy radioactive nuclear beam apparatus: status and recent results,” F.D. Becchetti, M.Y. Lee, T.W. O’Donnell, D.A. Roberts, J.J. Kolata, L.O. Lamm, G. Rogachev, V. Guimarães, P.A. DeYoung, and S. Vincent, *Nucl. Inst. Methods in Physics Research A* 505, 377 (2003).
204. “Final state interaction or a ${}^3\text{H}$ excited state?” G.V. Rogachev, J.J. Kolata, V.Z. Goldberg, L.V. Grigorenko, F.D. Becchetti, P.A. DeYoung, J.D. Hinnefeld, L.O. Lamm, J. Lupton, T.W. O’Donnell, D.A. Roberts, and S. Shaheen, *Phys. Rev. C* 68, 024602 (2003).
205. “Reaction cross sections for exotic light nuclei near the Coulomb barrier”, J.J. Kolata and E.F. Aguilera, *Revista Mexicana de Física* 49, 50-53 Suppl. 4 (2003).
206. “Reaction cross sections for exotic light nuclei near the Coulomb barrier”, J.J. Kolata and E.F. Aguilera, *Revista Mexicana de Física* 49, 50-53 Suppl. 4 (2003).
207. “Recent results in the studies of nuclear structure by resonance scattering with radioactive beams,” V.Z. Goldberg, W.H. Trzaska, G. Rogachev, J.J. Kolata, A. Andreev, C. Angulo, M.J.G. Borge, S. Cherubini, G.G. Chubarian, G. Crowley, A. Fomichev, M. Gorska, M. Guliano, M.S. Golovkov, M. Huyse, K.M. Kallman, M. Lattuada, T. Lonroth, M. Mutterer, Y.T. Oganessian, R. Raabe, A. Rodin, S. Romano, M. Rozhkov, B.B. Skorodumov, R.S. Slepnev, C. Spitaleri, O. Tengblad, G.M. Ter-Akopian, A. Tumino, P. Van Duppen, and R. Wolski, *Revista Mexicana de Física* 49, 124-129 Suppl. 4 (2003).

208. “New perspectives in the studies of resonance scattering,” V.Z. Goldberg, W.H. Trzaska, G.V. Rogachev, J.J. Kolata, A. Andreyev, C. Angulo, M.J.G. Borge, S. Cherubini, G.G. Chubarian, G. Crowley, A. Fomichev, M. Gorska, M. Guliano, M.S. Golovkov, M. Huyse, K.M. Kallman, M. Lattuada, T. Lonnroth, M. Mutterer, R. Raabe, A.M. Rodin, S. Romano, M.V. Rozhkov, B.B. Skorodumov, C. Spitaleri, O. Tengblad, G.M. Ter-Akopian, A. Tumino, P. Van Duppen, and R. Wolski, *Acta Physica Hungarica (New Series-Heavy Ion Physics)* 18, 215- 222 (2003).
209. “Elastic scattering of ^{10}Be on ^{208}Pb near the Coulomb barrier,” J.J. Kolata, E.F. Aguilera, F.D. Becchetti, Y. Chen, P.A. DeYoung, H. García-Martínez, J.D. Hinnefeld, J.H. Lupton, E. Martinez-Quiroz, and G. Peaslee, *Phys. Rev. C* 69, 047601 (2004).
210. “Investigation of the α -cluster structure of ^{22}Ne and ^{22}Mg ,” V.Z. Goldberg, G.V. Rogachev, W.H. Trzaska, J.J. Kolata, A. Andreyev, C. Angulo, M.J.G. Borge, S. Cherubini, G. Chubarian, G. Crowley, P. Van Duppen, M. Gorska, M. Gulino, M. Huyse, P. Jesinger, K.-M. Källman, M. Lattuada, T. Lönroth, M. Mutterer, R. Raabe, S. Romano, M.V. Rozhkov, B.B. Skorodumov, C. Spitaleri, O. Tengblad, and A. Tumino, *Phys. Rev. C* 69, 024602 (2004).
211. “Resonance scattering $^8\text{He} + p$ and $T=5/2$ states in ^9Li ,” V.Z. Goldberg, G.V. Rogachev, J.J. Kolata, G. Chubarian, D. Aleksandrov, M.S. Golovkov, Yu. Ts. Oganessian, A. Rodin, B. Skorodumov, R.S. Slepnev, G. Ter-Akopian, and R. Wolski, *Nucl. Phys. A* 734, 349-356 (2004).
212. “Structure of Exotic ^7He and ^9He ,” G.V. Rogachev, A. Aprahamian, F.D. Becchetti, P. Boutachkov, Y. Chen, G. Chubarian, P.A. DeYoung, A. Fomichev, V.Z. Goldberg, M.S. Golovkov, J.J. Kolata, Yu. Ts. Oganessian, G.F. Peaslee, M. Quinn, A. Rodin, B.B. Skorodumov, R.S. Slepnev, G. Ter-Akopian, W.H. Trzaska, A. Wöhr, and R. Wolski, *Proceedings of the Fifth International Conference on Radioactive Nuclear Beams (RNB6)*, Argonne National Laboratory, Argonne, Illinois, September 22-26, 2003, *Nuclear Physics A* 746, 229c-235c (2004).
213. “Analog states of ^7He observed via the $^6\text{He}(p,n)$ reaction,” G.V. Rogachev, P. Boutachkov, A. Aprahamian, F.D. Becchetti, Y. Chen, G. Chubarian, P.A. DeYoung, V.Z. Goldberg, J.J. Kolata, G.F. Peaslee, M. Quinn, B.B. Skorodumov, and A. Wöhr, *Phys. Rev. Lett.* 92, 232502 (2004).
214. “ $^{209}\text{Bi}(^6\text{He}, \alpha)$ reaction mechanisms studies near the Coulomb barrier using n-alpha coincidence measurements,” J.P. Bychowski, P.A. DeYoung, B.B. Hildore, J.D. Hinnefeld, A. Vida, F.D. Becchetti, J. Lupton, T.W. O’Donnell, J.J. Kolata, G. Rogachev, M. Hencheck, *Phys. Lett. B* 596, 26-31 (2004).
215. “The Structure of ^7He and ^9He ,” G.V. Rogachev, A. Aprahamian, F.D. Becchetti, P. Boutachkov, Y. Chen, G. Chubarian, P.A. DeYoung, A. Fomichev, V.Z. Goldberg, M.S. Golovkov, J.J. Kolata, Yu. Ts. Oganessian, G.F. Peaslee, M. Quinn, A. Rodin, B.B. Skorodumov, R.S. Slepnev, G. Ter-Akopian, W.H. Trzaska, A. Wöhr, *Proceedings of Radioactive Nuclear Beams 6*, Argonne National Laboratory, Argonne, Illinois, September 22-26, 2003, *Nuclear Physics A* 746, 229-235 (2004).

216. "Fusion of the ${}^8\text{Li}+{}^{208}\text{Pb}$ system at near-barrier energies studied via xn evaporation," E.F. Aguilera, E. Martinez-Quiroz, H. Garcia-Martinez, A. Gomez-Camacho, J.J. Kolata, G. Rogachev, P.A. DeYoung, G.F. Peaslee, P. Mears, F.D. Becchetti, J.H. Lupton, Y. Chen, and J.D. Hinnefeld, *Revista Mexicana de Fisica* 50, 1-4 Suppl. 2 (2004).
217. "The (${}^8\text{Li}$, alpha) reaction at low energy: Direct ${}^4\text{H}$ cluster transfer?" F.D. Becchetti, R.S. Raymond, D.A. Roberts, J. Lucido, P.A. DeYoung, B. Hilldore, J. Bychowski, A.J. Huisman, P.J. VanWynen, J.J. Kolata, G. Rogachev, and J.D. Hinnefeld, *Phys. Rev.* C71, 054610 (9 pages) (2005).
218. "Two-neutron transfer in the ${}^6\text{He}+{}^{209}\text{Bi}$ reaction near the Coulomb barrier," P.A. DeYoung, P.J. Mears, J.J. Kolata, E.F. Aguilera, F.D. Becchetti, Y. Chen, M. Cloughesy, H. Griffen, C. Guess, J.D. Hinnefeld, J. Jiang, S.R. Jones, U. Khadka, D. Lizcano, E. Martinez-Quiroz, M. Ojaniega, G.F. Peaslee, A. Pena, J. Rieth, S. VanDenDriessche, and J.A. Zimmerman, *Phys. Rev.* C71, 051601(R) (4 pages) (2005).
219. "Direct neutron transfer in the ${}^{238}\text{U}({}^6\text{He}$, fission) reaction near the Coulomb barrier," J.J. Kolata, *Phys. Rev.* C71, 067603 (2 pages) (2005).
220. "Isobaric analog states of neutron-rich nuclei. Doppler shift as a measurement tool for resonance excitation functions," P. Boutachkov, G.V. Rogachev, V.Z. Goldberg, A. Aprahamian, F.D. Becchetti, J.P. Bychowski, Y. Chen, G. Chubarian, P.A. DeYoung, J.J. Kolata, L.O. Lamm, G.F. Peaslee, M. Quinn, B.B. Skorodumov, and A. Woehr, *Euro. Phys. J. A* 25, 259-260 (2005).
221. "Sub-barrier fusion induced by neutron-rich radioactive Sn-132," J.F. Liang, D. Shapira, C.J. Gross, R.L. Varner, H. Amro, J.R. Beene, J.D. Bierman, A.L. Caraley, A. Galindo-Uribarri, J.G. del Campo, P.A. Hausladen, K.L. Jones, J.J. Kolata, Y. Larochelle, W. Loveland, P.E. Mueller, D. Peterson, D.C. Radford, D.W. Stracener, *Euro. Phys. J. A* 25, 239-240 Suppl. 1 (2005).
222. "Measurement of evaporation residue cross sections from reactions with radioactive neutron-rich beams," D. Shapira, J.F. Liang, C.J. Gross, R.L. Varner, J.R. Beene, A. Galindo-Uribarri, J.G. del Campo, P.E. Mueller, D.W. Stracener, P.A. Hausladen, C. Harlin, J.J. Kolata, H. Amro, W. Loveland, K.L. Jones, J.D. Bierman, A.L. Caraley, *Euro. Phys. J. A* 25, 241-242 Suppl. 1 (2005).
223. "Radioactive Ion Beams in Brazil (RIBRAS)," R. Lichenthaler, A. Lepine-Szily, V. Guimaraes, C. Perego, V. Placco, O. Camargo, R. Denke, P.N. de Faria, E.A. Benjamim, N. Added, G.F. Lima, M.S. Hussein, J. Kolata, A. Arazi, *Euro. Phys. J. A* 25, 733-736 Suppl. 1 (2005).
224. "A high-efficiency compact setup to study evaporation residues formed in reactions induced by low-intensity radioactive ion beams," D. Shapira, J.F. Liang, C.J. Gross, R.L. Varner, H. Amro, C. Harlin, J.J. Kolata, S. Novotny, *Nuclear Instruments & Methods In Physics Research Section A-Accelerators Spectrometers Detectors And Associated Equipment* 551 (2-3): 330-338 (2005).

225. "Doppler Shift as a Tool for Studies of Isobaric Analog States of Neutron-Rich Nuclei: Application to ^7He ," P. Boutachkov, G.V. Rogachev, V.Z. Goldberg, A. Aprahamian, F.D. Becchetti, J.P. Bychowski, Y. Chen, G. Chubarian, P.A. DeYoung, J.J. Kolata, L.O. Lamm, G.F. Peaslee, M. Quinn, B.B. Skorodumov, and A. Wöhr., *Phys. Rev. Lett.* 95, 132502 (2005).
226. "Isobaric analog states as a tool for spectroscopy of exotic nuclei." G.V. Rogachev, A.A. Aprahamian, F.D. Becchetti, P. Boutachkov, Y. Chen, G. Chubarian, P.A. DeYoung, A. Fomichev, V.Z. Goldberg, M.S. Golovkov, J.J. Kolata, Yu. Ts. Oganessian, G.F. Peaslee, M. Quinn, A. Rodin, B.B. Skorodumov, R.S. Slepnev, G. Ter-Akopian, W.H. Trzaska, A. Woehr, and R. Wolski, *Nuclear Instruments and Methods in Physics Research B: Beam Interactions with Materials and Atoms* 241, 977-982 (2005).
227. "A large segmented neutron detector for reaction studies with radioactive beams near the Coulomb barrier," J.J. Kolata, Hanan Amro, M. Cloughesy, P.A. DeYoung, J. Rieth, J.P. Bychowski, and G. Peaslee, *Nuclear Instruments and Methods in Physics Research A* 557, 594-598 (2006).
228. "Reaction and proton-removal cross sections of ^6Li , ^7Be , ^{10}B , $^{9,10,11}\text{C}$, ^{12}N , $^{13,15}\text{O}$, and ^{17}Ne on Si at 15 to 53 MeV/nucleon", R. E. Warner, F. Carstoiu, J. A. Brown, F. D. Becchetti, D. A. Roberts, B. Davids, A. Galonsky, R. M. Ronningen, M. Steiner, M. Horoi, J. J. Kolata, A. Nadasen, C. Samanta, J. Schwartzberg, and K. Subotic, *Phys. Rev.* C74, 014605 (2006) [12 pages].
229. "Investigation of the ^{19}Na nucleus via resonance elastic scattering," B.B. Skorodumov, G.V. Rogachev, P. Boutachkov, A. Aprahamian, J.J. Kolata, L.O. Lamm, M. Qunn and A. Woehr, *Physics of Atomic Nuclei* 69, 1979 (2006) [6 pages].
230. "Capture cross sections for the near symmetric $^{124}\text{Sn}+^{96}\text{Zr}$ reaction," A.M. Vinodkumar, W. Loveland, P.H. Sprunger, D. Peterson, J.F. Liang, D. Shapira, R.L. Varner, C.J. Gross, and J.J. Kolata, *Phys. Rev.* C74, 064612 (2006) [5 pages].
231. "Studies of Fusion Cross Sections of Te and Sn Isotopes with a ^{64}Ni Target at Energies Near and Below the Barrier," D. Shapira, J.F. Liang, C.J. Gross, R.L. Varner, J.R. Beene, A. Galindo-Uribarri, J. Gomez del Campo, P.A. Hausladen, P.E. Mueller, D.W. Stracener, J.J. Kolata, H. Amro, W. Loveland, K.L. Jones, J.D. Bierman, and A.L. Caraley, in *Proceedings of American Institute of Physics Fusion06*, L. Corradi, D. Ackermann, E. Fioretto, A. Gadea, F. Haas, G. Pollarolo, F. Scarlassara, S. Szilner, and M. Trotta, eds., (2006) [5 pages].
232. "Spectroscopy of ^9C via resonance scattering of protons on ^8B ," G.V. Rogachev, J.J. Kolata, A.S. Volya, F.D. Becchetti, Y. Chen, P.A. DeYoung, and J. Lupton, *Phys. Rev.* C75, 014603 (2007) [8 pages].
233. "Lowest excited states of ^{13}O ," B. B. Skorodumov, G. V. Rogachev, P. Boutachkov, A. Aprahamian, V. Z. Goldberg, A. Mukhamedzhanov, S. Almaraz, H. Amro, F. D. Becchetti, S. Brown, Y. Chen, H. Jiang, J. J. Kolata, L. O. Lamm, M. Quinn, and A. Woehr, *Phys. Rev.* C75, 024607 (2007) [6 pages].

234. “Breakup of ${}^6\text{He}$ incident on ${}^{209}\text{Bi}$ near the Coulomb barrier,” J.J. Kolata, H. Amro, F.D. Becchetti, J.A. Brown, P.A. DeYoung, M. Hencheck, J.D. Hinnefeld, G.F. Peaslee, A.L. Fritsch, C. Hall, U. Khadka, Patrick J. Mears, P. O’Rourke, D. Padilla, J. Rieth, Tabatha Spencer, and T. Williams, *Phys. Rev. C* 75, 031302(R) (2007) [4 pages].
235. “Performance of the RADPHI detector and trigger in a high rate tagged photon beam,” R.T. Jones, T. Bogue, B.E. Evans, M. Kornicer, A.R. Dzierba, R. Gardner, J.L. Gunter, D. Krop, R. Lindenbusch, D.R. Rust, E. Scott, P. Smith, C. Steffen, S. Teige, D.S. Armstrong, J.H.D. Clark, L.J. Kaufman, D.J. Steiner, E. Friez, D. Pocanic, J.J. Kolata, L.O. Lamm, G. Rogachev, C. Campbell, E. Collins, L. McGlinchey, P. Rubin, E. Walker, G.S. Adams, J. Napolitano, H. Crannell, D.I. Sober, R.R. Mammei, and E.S. Smith, *Nuclear Instruments and Methods in Physics Research A* 570, 384-398 (2007).
236. “Fusion of radioactive ${}^{132}\text{Sn}$ with ${}^{64}\text{Ni}$,” J.F. Liang, D. Shapira, J.R. Beene, C.J. Gross, R.L. Varner, A. Galindo-Uribarri, J. Gomez del Campo, P.A. Hausladen, P.E. Mueller, D.W. Stracener, H. Amro, J.J. Kolata, J.D. Bierman, A.L. Caraley, K.L. Jones, Y. Larochelle, W. Loveland and D. Peterson, *Phys. Rev. C* 75, 054607 (2007) [9 pages].
237. “Neutron transfer reactions induced by ${}^8\text{Li}$ on ${}^9\text{Be}$,” V. Guimarães, R. Lichtenthäler, O. Camargo, A. Barioni, M. Assunção, J.J. Kolata, H. Amro, F.D. Becchetti, Hao Jiang, E.F. Aguilera, D.Lizcano, E. Martinez-Quiroz, and H. Garcia, *Phys. Rev. C* 75, 054602 (2007) [9 pages].
238. “BaF₂ array for gamma-tagged studies with radioactive nuclear beams”, H. Amro, F.D. Becchetti, Hao Hang, M. Ojaruega, J. Kolata, B. Skorodumov, G. Peaslee, P. DeYoung , D. Denby, and J.D. Hinnefeld, *Nuclear Instruments & Methods in Physics Research A* 579, 31-33 (2007). [3 pages]
239. “Energy-spread compensation in a solenoid-based secondary radioactive beam apparatus”, Hao Hang, H. Amro , M. Ojaruega, F.D. Becchetti, and J.J. Kolata, *Nuclear Instruments & Methods in Physics Research A* 579, 461-464 (2007). [4 pages]
240. “ ${}^7\text{Be}$ -induced alpha-transfer reaction on ${}^{12}\text{C}$,” H. Amro, F.D. Becchetti, Y. Chen, H. Jiang, M. Ojaruega, M.J. Golobish, H.C. Griffin, J.J. Kolata, B. Skorodumov, G. Peaslee, P.A. DeYoung, P. Mears, D. Denby, J. Brown, J.D. Hinnefeld, and A.M. Moro, *European Physical Journal-Special Topics* 150, 1-4 (Nov. 2007). [4 pages]
241. “Measurements of fusion reactions induced by radioactive ${}^{132}\text{Sn}$ on ${}^{64}\text{Ni}$, J.F. Liang, D. Shapira, C.J. Gross, R.L. Varner, H. Amro, J.R. Beene, J.D. Bierman A.L Caraley, A. Galindo-Uribarri, J.G. del Campo, P.A. Hausladen, K.L. Jones, J.J. Kolata, Y. Larochelle, W. Loveland, P.E. Mueller, D. Peterson, D.C Radford, and D.W. Stracener, *European Physical Journal-Special Topics* 150, 35-36 (Nov. 2007). [2 pages]
242. “New measurements on breakup of ${}^8\text{B} + {}^{58}\text{Ni}$ at energies around the Coulomb barrier,” E.F. Aguilera, E. Martinez-Quiroz, T.L. Belyaeva, J.J. Kolata, and R. Leyte-González, *Physics of Atomic Nuclei* 71, 1163-1167 (2008). [5 pages]
243. “The ${}^9\text{Be}({}^8\text{Li}, {}^9\text{Be}){}^8\text{Li}$ elastic-transfer reaction,” O. Camargo, V. Guimarães, R. Lichtenthäler, V. Scarduelli, J.J. Kolata, C.A. Bertulani, H. Amro, F.D. Bechetti, Hao Jiang, E.F. Aguilera, D. Lizcano, E. Martinez-Quiroz, and H. Garcia, *Phys. Rev. C* 78, 034605 (2008). [8 pages]

244. “ $T=3/2$ states in ^{13}C ,” B.B. Skorodumov, G.V. Rogachev, A. Aprahamian, V.Z. Goldberg, J.J. Kolata, S. Almaraz, H. Amro, E.D. Johnson, L.O. Lamm, M. Quinn, A. Teymurazyan, R.E. Tribble, and A. Woehr, *Phys. Rev. C* **78**, 044603 (2008). [8 pages]
245. “ $^{132}\text{Sn}+^{96}\text{Zr}$ reaction: A study of fusion enhancement/hindrance,” A.M. Vinodkumar, W. Loveland, J.J. Neeway, L. Prisbrey, P.H. Sprunger, D. Peterson, J.F. Liang, D. Shapira, C.J. Gross, R.L. Varner, J.J. Kolata, A. Roberts, and A.L. Caralay, *Phys. Rev. C* **78**, 054608 (2008) [7 pages]
246. “Elastic scattering of a proton-halo nucleus: $^8\text{B}+^{58}\text{Ni}$,” E.F. Aguilera, E. Martinez-Quiroz, P. Rosales, D. Lizcano, A. Gomez-Camacho, J.J. Kolata, L.O. Lamm, V. Guimarães, R. Lichtenthaler, O. Camargo, F.D. Becchetti, H. Jiang, P.A. DeYoung, and P.J. Mears, *Revista Mexicana de Fisica* **54** (Suppl. S), 1-4 (2008) [4 pages].
247. “Transfer reactions in the investigation of light-nuclei nucleosynthesis,” V. Guimarães, O. Camargo, R. Lichtenthaler, V. Scarduelli, J.J. Kolata, H. Amro, F.D. Becchetti, Hao Jiang, E.F. Aguilera, D. Lizcano, E. Martinez-Quiroz, and H. Garcia, *Revista Mexicana de Fisica* **54** (Suppl. S), 63-68 (2008) [6 pages].
248. “Reaction cross sections for ^8B , ^7Be , and $^6\text{Li}+^{58}\text{Ni}$ near the Coulomb barrier: Proton-halo effects,” E.F. Aguilera, E. Martinez-Quiroz, D. Lizcano, A. Gómez-Camacho, J.J. Kolata, L.O. Lamm, V. Guimarães, R. Lichtenthaler, O. Camargo, F.D. Becchetti, H. Jiang, P.A. DeYoung, P.J. Mears, and T.L. Belyaeva, *Phys. Rev. C* **79**, 021601 (R) (2009) [5 pages].