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Education

Ph.D. Experimental Nuclear Physics, Michigan State University, 2002

M.S. Physics, Institute of Theoretical Physics, Chinese Academy of Sciences, Beijing, China, 1997

B.S. Physics, Beijing University, Beijing, China, 1994

Positions

Research Assistant Professor, Department of Physics, University of Notre Dame, 2007-present

Postdoctoral Research Associate, Department of Physics, University of Notre Dame, 2003-2006

Graduate Assistant, (advisor: William G. Lynch), Michigan State University, Aug. 1997- Dec. 2002

Graduate Assistant, Institute of Theoretical Physics, Chinese Academy of Sciences, Beijing, China, 1995-1997

Undergraduate research assistant, Beijing University, Beijing, China, 1993-1994

Scholarships and Fellowships

Yilida Hope Scholarship, 1995, Graduate School of the Chinese Academy of Sciences

Guang-Hua Scholarship, 1990-1993, Beijing University

Distinctions, Honors, Awards

Lectureship of Overseas Young Returning Scientists Program, 2003, China Center of Advanced Science and Technology (CCAST), Beijing

Ye Qi-Xun Experimental Physics Prize, 1994, Beijing University

Excellent Graduate of Colleges in Beijing, 1994, Beijing University

Professional Memberships

American Physical Society

Refereed Publications

T.X.Liu, W.G.Lynch, M.J.van Goethem, X.D.Liu, R.Shomin, **W.P.Tan**, M.B.Tsang, G.Verde, A.Wagner, H.F.Xi, H.S.Xu, W.A.Friedman, S.R.Souza, R.Donangelo, L.Beaulieu, B.Davin, Y.Larochelle, T.Lefort, R.T.de Souza, R.Yanez, V.E.Viola, R.J.Charity, L.G.Sobotka, *Cooling dynamics in multi-fragmentation processes*, Europhys.Lett. **74**, 806 (2006)

W. P. Tan, J. Görres, J. Daly, M. Couder, A. Couture, H. Y. Lee, E. Stech, E. Strandberg, C. Ugalde, and M. Wiescher, *Lifetime of the astrophysically important 4.03 MeV state in ^{19}Ne* , Phys. Rev. C **72**, 041302(R) (2005)

C. Ugalde, R. Azuma, A. Couture, J. Görres, M. Heil, K. Scheller, E. Stech, **W. Tan** and M. Wiescher, *The reaction rate for the destruction of fluorine in AGB stars*, Nucl. Phys. A **758**, 577 (2005)

S. Hudan, R. Alfaro, B. Davin, Y. Larochelle, H. Xu, L. Beaulieu, T. Lefort, R. Yanez, R. T. de Souza, R. J. Charity, L. G. Sobotka, T. X. Liu, X. D. Liu, W. G. Lynch, R. Shomin, **W. P. Tan**, M. B. Tsang, A. V. Molen, A. Wagner, and H. F. Xi, *Comparison of midvelocity fragment formation with projectilelike decay*, Phys. Rev. C **71**, 054604 (2005)

S. Hudan, R. Alfaro, L. Beaulieu, B. Davin, Y. Larochelle, T. Lefort, V. E. Viola, H. Xu, R. Yanez, R. T. de Souza, R. J. Charity, L. G. Sobotka, T. X. Liu, X. D. Liu, W. G. Lynch, R. Shomin, **W. P. Tan**, M. B. Tsang, A. Vander Molen, A. Wagner, and H. F. Xi, *Interplay of initial deformation and Coulomb proximity on nuclear decay*, Phys. Rev. C **70**, 031601 (2004)

M. B. Tsang, T. X. Liu, L. Shi, P. Danielewicz, C. K. Gelbke, X. D. Liu, W. G. Lynch, **W. P. Tan**, G. Verde, A. Wagner, H. S. Xu, W. A. Friedman, L. Beaulieu, B. Davin, R. T. de Souza, Y. Larochelle, T. Lefort, R. Yanez, V. E. Viola, Jr., R. J. Charity, and L. G. Sobotka, *Isospin Diffusion and the Nuclear Symmetry Energy in Heavy Ion Reactions*, Phys. Rev. Lett. **92**, 062701 (2004)

W. P. Tan, W. G. Lynch, T. X. Liu, X. D. Liu, M. B. Tsang, G. Verde, A. Wagner, H. S. Xu, B. Davin, R. T. de Souza, Y. Larochelle, R. Yanez, R. J. Charity and L. G. Sobotka, *Spin determination of particle unstable levels with particle correlations*, Phys. Rev. C **69**, 061304(R) (2004)

S. R. Souza, R. Donangelo, W. G. Lynch, **W. P. Tan**, and M. B. Tsang, *Isoscaling bearing information on the nuclear caloric curve*, Phys. Rev. C **69**, 031607(R) (2004)

T. X. Liu, M. J. van Goethem, X. D. Liu, W. G. Lynch, R. Shomin, **W. P. Tan**, M. B. Tsang, G. Verde, A. Wagner, H. F. Xi, H. S. Xu, *et al.*, *Isotope yields from central $^{112,124}\text{Sn} + ^{112,124}\text{Sn}$ collisions: Dynamical emission?*, Phys. Rev. C **69**, 014603 (2004)

W. P. Tan, S. R. Souza, R. J. Charity, R. Donangelo, W. G. Lynch, and M. B. Tsang, *Isospin effects in nuclear multifragmentation*, Phys. Rev. C **68**, 034609 (2003)

S.R.Souza, P.Danielewicz, S.Das Gupta, R.Donangelo, W.A.Friedman, W.G.Lynch, **W.P.Tan**, M.B.Tsang, *Mass parametrizations and predictions of isotopic observables*, Phys.Rev. C 67, 051602 (2003)

R.Yanez, S.Hudan, R.Alfaro, B.Davin, Y.Larochelle, H.Xu, L.Beaulieu, T.Lefort, V.E.Viola, R.T.de Souza, T.X.Liu, X.D.Liu, W.G.Lynch, R.Shomin, **W.P.Tan**, M.B.Tsang, A.Vander Molen, A.Wagner, H.F.Xi, R.J.Charity, L.G.Sobotka, *Excitation and decay of projectilelike fragments formed in dissipative peripheral collisions at intermediate energies*, Phys.Rev. C 68, 011602 (2003)

B. Davin, R. Alfaro, H. Xu, L. Beaulieu, Y. Larochelle, T. Lefort, R. Yanez, S. Hudan, A. L. Caraley, and R. T. de Souza; T. X. Liu, X. D. Liu, W. G. Lynch, R. Shomin, **W. P. Tan**, M. B. Tsang, A. Vander Molen, A. Wagner, H. F. Xi, and C. K. Gelbke; R. J. Charity and L. G. Sobotka, *Fragment production in noncentral collisions of intermediate-energy heavy ions*, Phys. Rev. C 65, 064614 (2002)

H. Xu, R. Alfaro, B. Davin, L. Beaulieu, Y. Larochelle, T. Lefort, R. Yanez, S. Hudan, and R. T. de Souza; T. X. Liu, X. D. Liu, W. G. Lynch, R. Shomin, **W. P. Tan**, M. B. Tsang, A. Vander Molen, A. Wagner, H. F. Xi, and C. K. Gelbke; R. J. Charity and L. G. Sobotka; A. S. Botvina, *Fragment isospin as a probe of heavy-ion collisions*, Phys. Rev. C 65, 061602(R) (2002)

M. B. Tsang, C. K. Gelbke, X. D. Liu, W. G. Lynch, **W. P. Tan**, G. Verde, H. S. Xu, W. A. Friedman, R. Donangelo, S. R. Souza, C. B. Das, S. Das Gupta, and D. Zhabinsky, *Isoscaling in statistical models*, Phys. Rev. C 64, 054615 (2001)

W. P. Tan, B.-A. Li, R. Donangelo, C. K. Gelbke, M.-J. van Goethem, X. D. Liu, W. G. Lynch, S. Souza, M. B. Tsang, G. Verde, A. Wagner, and H. S. Xu, *Fragment isotope distributions and the isospin dependent equation of state*, Phys. Rev. C 64, 051901(R) (2001)

B. Davin, R.T. de Souza, R. Yanez, Y. Larochelle, R. Alfaro, H.S. Xu, A. Alexander, K. Bastin, L. Beaulieu, J. Dorsett, G. Fleener, L. Gelovani, T. Lefort, J. Poehlman, R.J. Charity, L.G. Sobotka, J. Elson, A. Wagner, T.X. Liu, X.D. Liu, W.G. Lynch, L. Morris, R. Shomin, **W.P. Tan**, M.B. Tsang, G. Verde and J. Yurkon, *LASSA: a large area silicon strip array for isotopic identification of charged particles*, Nucl. Instr. Meth. A 473, 302 (2001)

G. Verde, H.S. Xu, T.X. Liu, X.D. Liu, W.G. Lynch, **W.P. Tan**, M.B. Tsang, A. VanderMolen, A. Wagner, H.F. Xi, C.K. Gelbke, L. Beaulieu, B. Davin, Y. Larochelle, T. Lefort, R.T. de Souza, R. Yanez, V. Viola, R.J. Charity and L.G. Sobotka, *Isospin fractionation in nuclear fragmentation*, Nucl. Phys. A 681, 299 (2001)

A. Wagner, **W.P. Tan**, K. Chalut, R.J. Charity, B. Davin, Y. Larochelle, M.D. Lennek, T.X. Liu, X.D. Liu, W.G. Lynch, A.M. Ramos, R. Shomin, L.G. Sobotka, R.T. de Souza, M.B. Tsang, G. Verde and H.S. Xu, *Energy resolution and energy-light response of CsI(Tl) scintillators for charged particle detection*, Nucl. Instr. Meth. A 456, 290 (2001)

S. R. Souza, **W. P. Tan**, R. Donangelo, C. K. Gelbke, W. G. Lynch, and M. B. Tsang, *Nuclear isotope thermometry*, Phys. Rev. C 62, 064607 (2000)

H. S. Xu, M. B. Tsang, T. X. Liu, X. D. Liu, W. G. Lynch, **W. P. Tan**, A. Vander Molen, G. Verde, A. Wagner, H. F. Xi, C. K. Gelbke, L. Beaulieu, B. Davin, Y. Larochelle, T. Lefort, R. T. de Souza, R. Yanez, V. E. Viola, R. J. Charity and L. G. Sobotka, *Isospin Fractionation in Nuclear Multifragmentation*, Phys. Rev. Lett. 85, 716 (2000)

Yue Yu and **Wan-Peng Tan**, *Phase structures of magnetic impurity models with two-body hybridization*, Phys. Rev. B 57, 5879 (1998)

Unrefereed Publications

W. P. Tan, J. Görres, J. Daly, M. Couder, A. Couture, H. Y. Lee, E. Stech, E. Strandberg, C. Ugalde, and M. Wiescher, *Threshold states in ^{19}Ne and the CNO breakout reaction $^{15}\text{O}(\alpha, \gamma)^{19}\text{Ne}$* , Proc.12th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Notre Dame, Indiana, 4-9 September 2005, A.Woehr, A.Aprahamian, Eds., p.191 (2006)

A.Couture, M.Beard, M.Couder, J.Gorres, L.Lamm, P.LeBlanc, H.-Y.Lee, S.O'Brien, A.Palumbo, E.Stech, E.Strandberg, **W.Tan**, E.Uberseder, C.Ugalde, M.Wiescher, *$^{19}\text{F}(p, \gamma)^{20}\text{Ne}$: Putting a Lid on the CNO Cycle*, Proc.12th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Notre Dame, Indiana, 4-9 September 2005, A.Woehr, A.Aprahamian, Eds., p.186 (2006)

H.-Y.Lee, M.Beard, H.-W.Becker, M.Couder, A.Couture, J.Gorres, L.Lamm, P.LeBlanc, S.O'Brien, A.Palumbo, E.Stech, E.Strandberg, **W.Tan**, C.Ugalde, M.Wiescher, *$^{18}\text{F}(\alpha, p)^{21}\text{Ne}$ Reaction: Neutron Source For r-Process In Supernovae*, Proc.12th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Notre Dame, Indiana, 4-9 September 2005, A.Woehr, A.Aprahamian, Eds., p.581 (2006)

Lynch, William; Liu, T. X.; van Goethem, M. J.; Liu, X. D.; Shomin, R.; **Tan, W. P.**; Tsang, M. B.; Verde, G.; Wagner, A.; Xi, H. F.; Xu, H. S.; Friedman, W. A.; Souza, S. R.; Donangelo, R.; Davin, B.; Larochelle, Y.; de Souza, R. T.; Viola, V. E.; Charity, R. J.; Sobotka, L. G., *Cooling Dynamics in Multi-fragmentation processes*, American Physical Society, APS April Meeting, April 22-26, 2006, abstract #I8.004

Desouza, R. T.; Hudan, S.; Alfaro, R.; Beaulieu, L.; Davin, B. P.; Larochelle, Y.; Lefort, T.; Viola, V. E.; Xu, H.; Yanez, R.; Charity, R. J.; Sobotka, L. G.; Xi, H. F.; Liu, T. X.; Liu, X. D.; Lynch, W. G.; Shomin, R.; **Tan, W. P.**; Tsang, M. B.; Vandermolen, A.; Wagner, A., *Interplay of initial deformation and Coulomb proximity on nuclear decay*, American Physical Society, Division of Nuclear Physics Meeting, 27-30 October, 2004, Chicago, IL., abstract #CH.012

Liu, Tianxiao; Tsang, Manyee; Shi, Lijun; Danielewicz, Pawel; Gelbke, Konrad; Liu, Xiaodong; Lynch, William; **Tan, Wanpeng**; Verde, Giuseppe; Wagner, Andreas; Xu, Hushan; Beaulieu, Luc; Davin, Brian; de Souza, Romualdo; Larochele, Yves; Lefort, Thomas; Yanez, Riccardo; Viola, Victor; Charity, Robert; Sobotka, Lee; Friedman, William, *Isospin diffusion in nuclear collisions*, American Physical Society, Division of Nuclear Physics Meeting, 27-30 October, 2004, Chicago, IL., abstract #CH.011

Hudan, S.; Desouza, R. T.; Alfaro, R.; Beaulieu, L.; Davin, B. P.; Larochele, Y.; Lefort, T.; Viola, V. E.; Xu, H.; Yanez, R.; Charity, R. J.; Sobotka, L. G.; Xi, H. F.; Liu, T. X.; Liu, X. D.; Lynch, W. G.; Shomin, R.; **Tan, W. P.**; Tsang, M. B.; Vandermolen, A.; Wagner, A., *Fragment Production in Non-central Collisions of Intermediate Energy Heavy Ions*, American Physical Society, Division of Nuclear Physics Meeting, 27-30 October, 2004, Chicago, IL., abstract #CH.003

Verde, Giuseppe; Brown, D. A.; Danielewicz, P.; Gelbke, Konrad; Lau, K. K.; Lynch, W. G.; **Tan, Wanpeng**; Tsang, M. B., *Two-proton and d-alpha correlation functions in Sn+Sn and Xe+Au collisions*, American Physical Society, Division of Nuclear Physics Fall Meeting, October 30 - November 1, 2003, Tucson, Arizona, abstract #CE.011

Tan, W. P.; Gelbke, C. K.; Liu, T. X.; Liu, X. D.; Lynch, W. G.; Tsang, M. B.; van Goethem, M. J.; Verde, G.; Wagner, A.; Xi, H. F.; Xu, H. S.; Beaulieu, L.; Davin, B.; Larochele, Y.; Lefort, T.; de Souza, R. T.; Yanez, R.; Viola, V.; Charity, R. J., *Spin Determination from Fragmentation*, American Physical Society, April Meeting, 2003, April 5-8, 2003 Philadelphia, Pennsylvania, abstract #U10.008

Verde, Giuseppe; **Tan, Wanpeng**; Lynch, W. G.; Brown, D. A.; Danielewicz, P.; Gelbke, C. K.; Tsang, M. B., *Two-particle correlations and collective motion in heavy-ion collisions at intermediate energies*, American Physical Society, April Meeting, 2003, April 5-8, 2003 Philadelphia, Pennsylvania, abstract #U10.012

Desouza, R. T.; Yanez, R.; Hudan, S.; Davin, B.; Alfaro, R.; Xu, H.; Larochele, Y.; Beaulieu, L.; Lefort, T.; Viola, V. E.; Liu, T. X.; Liu, X. D.; Lynch, W. G.; Shomin, R.; **Tan, W. P.**; Tsang, M. B.; Vander Molen, A.; Wagner, A.; Xi, H. F.; Gelbke, C. K.; Charity, R. J.; Sobotka, L. G., *Excitation and Spin of Projectile-like fragments produced in peripheral and mid-peripheral collisions of intermediate energy heavy-ions*, American Physical Society, April Meeting, 2003, April 5-8, 2003 Philadelphia, Pennsylvania, abstract #U10.009

Famiano, M. A.; Gelbke, C. K.; Liu, T. X.; Liu, X. D.; Lynch, W. G.; **Tan, W. P.**; Tsang, M. B.; Verde, G.; Wagner, A.; Xu, H. S.; Donangelo, R.; Souza, S. R.; Davin, B.; Larochele, Y.; de Souza, R. T.; Charity, R. J.; Sobotka, L. G., *Isospin Effects in Nuclear Fragmentation*, American Physical Society, April Meeting, 2003, April 5-8, 2003 Philadelphia, Pennsylvania, abstract #P10.004

W.P. Tan, *Probing Freeze-Out Density via Particle Correlations*, presented at the poster session of 2002 Gordon Research Conference on Nuclear Chemistry, New London, New Hampshire, June 16-21, 2002

G.Verde, M.B.Tsang, C.K.Gelbke, T.X.Liu, X.D.Liu, W.G.Lynch, R.Shomin, **W.P.Tan**, A.Wagner, H.F.Xi, H.S.Xu, W.A.Friedman, B.Davin, Y.Larochelle, R.T.de Souza, R.J.Charity, L.G.Sobotka, *Scaling Behavior of Isotopes in Nuclear Reactions*, Proc.Inter.Nuclear Physics Conference, Berkeley, California, 30 July - 3 August 2001, E.Norman, L.Schroeder, G.Wozniak, Eds., p.697 (2002)

W.P. Tan, C.K. Gelbke, T.X. Liu, X.D. Liu, W.G. Lynch, M.B. Tsang, M.J. Van Goethem, G. Verde, A. Wagner, H.F. Xi, H.S. Xu, L. Beaulieu, B. Davin, Y. Larochelle, T. Lefort, R.T. de Souza, R. Yanez, V. Viola, R.J. Charity, and L.G. Sobotka, *A new method of analyzing particle correlations in multifragmentation*, APS DNP meeting, East Lansing, Michigan, October 9-12, 2002

W.P. Tan, C.K. Gelbke, W.G. Lynch, M.B. Tsang, S.R. Souza, R. Donangelo, and R.J. Charity, *Importance of empirical information in the statistical multifragmentation model*, APS DNP meeting, East Lansing, Michigan, October 9-12, 2002

Liu, T. X.; Shi, L. J.; Tsang, M. B.; Danielewicz, P.; Gelbke, C. K.; Liu, X. D.; Lynch, W. G.; **Tan, W. P.**; Verde, G.; Wagner, A.; Xu, H. S.; Friedman, W. A.; Davin, B.; Larochelle, Y.; de Souza, R. T.; Charity, R. J.; Sobotka, L. G., *Isospin Mixing and Isospin Diffusion in Heavy Ion Reactions*, American Physical Society, 2002 Fall Meeting of the Division of Nuclear , abstract #CG.005

Liu, T. X.; Liu, X. D.; Lynch, W. G.; Shomin, R.; **Tan, W. P.**; Tsang, M. B.; van Goethem, M. J.; Verde, G.; Wagner, A.; Xi, H. F.; Xu, H. S.; Gelbke, C. K.; Wolter, H. H.; Colonna, M.; di Toro, M.; Pfabe, M.; Beaulieu, L.; Davin, B.; Larochelle, Y.; Lefort, T.; de Souza, R. T.; Yanez, R.; Viola, V. E.; Charity, R. J.; Sobotka, L. G., *Isotope yields from central $^{112},^{124}\text{Sn}+^{112},^{124}\text{Sn}$ collisions*, American Physical Society, 2002 Fall Meeting of the Division of Nuclear , abstract #CG.004

Hudan, S.; Davin, B.; Alfaro, R.; Xu, H.; Beaulieu, L.; Larochelle, Y.; Lefort, T.; Yanez, R.; de Souza, R. T.; Liu, T. X.; Liu, X. D.; Lynch, W. G.; Shomin, R.; **Tan, W. P.**; Tsang, M. B.; Vander Molen, A.; Wagner, A.; Xi, H. F.; Gelbke, C. K.; Charity, R. J.; Sobotka, L. G., *Breakup of projectile-like fragments in heavy-ion collisions at intermediate energies : statistical and dynamical processes*, American Physical Society, 2002 Fall Meeting of the Division of Nuclear , abstract #CG.001

Liu, X. D.; Lynch, W. G.; Bazin, D.; Gelbke, C. K.; Hosmer, P.; Liu, T. X.; Sherrill, B.; Shomin, R.; **Tan, W. P.**; Tsang, M. B.; Verde, G.; Wagner, A.; Wallace, M.; Xu, H. S.; Yurkon, J.; Davin, B.; Larochelle, Y.; de Souza, R. T.; Charity, R. J.; Sobotka, L. G.; Lennek, M.; Seun, S., *Proton Induced Stripping Reactions on $N=6$ Isotones*, American Physical Society, 2002 Fall Meeting of the Division of Nuclear , abstract #BF.001

W.P. Tan, B-A. Li, R. Donangelo, C.K. Gelbke, M-J. van Goethem, X.D. Liu, W.G. Lynch, S. Souza, M.B. Tsang, G. Verde, A. Wagner, and H.S. Xu, *Probing the Isospin Dependence of the EOS in Fragmentation*, presented at the poster session of International Nuclear Physics Conference, Berkeley, California, July 30-August 3, 2001

Xu, H. S.; Davin, B.; Alfaro-Molina, R.; de Souza, R. T.; Beaulieu, L.; Larochelle, Y.; Lefort, T.; Viola, V. E.; Yanez, R.; Liu, T. X.; Liu, X. D.; Lynch, W. G.; Shomin, R.; **Tan, W. P.**; Tsang, M. B.; Verde, G.; Wagner, A.; Xi, H. F.; Gelbke, C. K.; Charity, R. J.; Sobotka, L. G., *Isotope Yield Systematics from Cd+Mo reactions at E/A=50 MeV*, American Physical Society, April Meeting, April 28 - May 1, 2001 Washington, DC Bulletin of the American Physical Society, Vol. 46, No. 2, abstract #V12.006

Alfaro, R.; Davin, B.; Beaulieu, L.; Desouza, R. T.; Larochelle, Y.; Lefort, T.; Viola, V. E.; Xu, H. S.; Yanez, R.; Gelbke, C. K.; Liu, T. X.; Liu, X. D.; Lynch, W. G.; Vander Molen, A.; Shomin, R.; **Tan, W. P.**; Tsang, M. B.; Wagner, A.; Xi, H. F.; Charity, R. J.; Sobotka, L. G.; Botvina, A., *Decay Characteristics of an Excited Projectile-like Fragment in $^{106,114}\text{Cd} + ^{98,92}\text{Mo}$ Reactions at 50 MeV/A*, American Physical Society, April Meeting, April 28 - May 1, 2001 Washington, DC Bulletin of the American Physical Society, Vol. 46, No. 2, abstract #V12.003

Wanpeng Tan, W.G. Lynch, C.K. Gelbke, P. Hosmer, M.B. Tsang, D. Zhabinski, and B.-A. Li, *Determination of the Isospin Dependence of the EOS with Isotopic Distributions*, Bull. Am. Phys. Soc. 45, No. 5, 40 (2000)

Wanpeng Tan, W. Lynch, M.B. Tsang, S.R. Souza, and R. Donangelo, *Nuclear Isotope Thermometry and the Finite-Size Effects*, Bull. Am. Phys. Soc. 45, No. 2, 117 (2000)

Verde, G.; Brown, David A.; Danielewicz, P.; Gelbke, C. K.; Liu, T. X.; Liu, X. D.; Lynch, W. G.; **Tan, W. P.**; Tsang, M. B.; Xu, H. S.; Xi, H. F.; David, B.; Desouza, R. T.; Larochelle, Y.; Charity, R. J.; Sobotka, L. G., *Imaging of emitting sources in heavy ion collisions by d-alpha correlation functions*, American Physical Society, Division of Nuclear Physics Meeting, October 4-7, 2000 Williamsburg, VA, abstract #BG.004

Zhabinskiy, D.; Gupta, S. D.; Majumder, A.; Tsang, M. B.; **Tan, W. P.**; Verde, G., *Isotope Yields from Central Collisions of $^{112,124}\text{Sn} + ^{112,124}\text{Sn}$ Reactions*, American Physical Society, Division of Nuclear Physics Meeting, October 4-7, 2000 Williamsburg, VA, abstract #AS.076

Xu, H. S.; Tsang, M. B.; Liu, T. X.; Liu, X. D.; Lynch, W. G.; **Tan, W. P.**; Verde, G.; Vandermolen, A.; Wagner, A.; Xi, H. F.; Gelbke, C. K.; Beaulieu, L.; Davin, B.; Larochelle, Y.; Lefort, T.; de Souza, R. T.; Yanez, R.; Viola, V.; Charity, R. J.; Sobotka, L. G., *Isospin Fractionation in Nuclear Multifragmentation*, American Physical Society, April Meeting, April 29-May 2, 2000 Long Beach, CA, abstract #P14.002

Davin, B.; Alfaro-Molina, R.; Beaulieu, L.; Desouza, R. T.; Gelovani, L.; Larochelle, Y.; Lefort, T.; Viola, V. E.; Yanez, R.; Chalut, C. K.; Gelbke, C. K.; Liu, T. X.; Liu, X. D.; Lynch, W. G.; Vander Molen, A.; Ramos, M.; Shomin, R.; **Tan, W. P.**; Tsang, M. B.; Wagner, A.; Xi, H. F.; Xu, H. S.; Charity, R. J.; Sobotka, L. G., *Isotope Ratio Measurements in $^{106,114}\text{Cd} + ^{98,92}\text{Mo}$ reactions at 50 MeV/A*, American Physical Society, April Meeting, April 29-May 2, 2000 Long Beach, CA, abstract #P14.001

W.P. Tan, *Nuclear Isotope Thermometry*, presented at the poster session of 2000 Gordon Research Conference on Nuclear Chemistry, New London, New Hampshire, June 18-22, 2000

Wanpeng Tan, W.G. Lynch, S. Souza, and R. Donangelo, *The Importance of Precise Structure Information to the Statistical Multifragmentation Model*, Bull. Am. Phys. Soc. 44, No. 1, 1140 (1999)

B. Davin, L. Beaulieu, R.T. DeSouza, Y. Larochelle, T. Lefort, V.E. Viola, R. Yanez, K. Chalut, C.K. Gelbke, T. Liu, X. Liu, W.G. Lynch, M. Ramos, R. Shomin, **W. Tan**, M.B. Tsang, A. Wagner, H. Xi, H. Xu, R.J. Charity, L.G. Sobotka, *Isotopically Resolved Intermediate Mass Fragment Emission in $^{106}\text{Cd} + ^{92}\text{Mo}$ at 50 MeV/A*, March 20-26, 1999., Atlanta, GA., 1999 Joint Meeting of APS and AAPT, abstract #QB04.08

Y. Larochelle, L. Beaulieu, B. Davin, R.T. DeSouza, T. Lefort, V.E. Viola, R. Yanez, R.G. Charity, D. Sarantites, L.G. Sobotka, K. Chalut, C.K. Gelbke, T. Liu, X. Liu, W.G. Lynch, M. Ramos, R. Shomin, **W. Tan**, M.B. Tsang, A. Wagner, H.F. Xi, H. Xu, *Isospin Equilibration Measurements in $^{114}\text{Cd} + ^{92}\text{Mo}$ at 50 MeV/nucleon*, March 20-26, 1999., Atlanta, GA., 1999 Joint Meeting of APS and AAPT, abstract #QB04.09

H. Xu, T. Liu, C.K. Gelbke, X. Liu, W.G. Lynch, R.J. Shomin, **W. Tan**, M.B. Tsang, A. Wagner, H. Xi, B. Davin, Y. Larochelle, R.T. De Souza, R. Yanez, R.J. Charity, L.G. Sobotka, *Effect of Isospin on Isotope Production at $E/A=50$ MeV*, March 20-26, 1999., Atlanta, GA., 1999 Joint Meeting of APS and AAPT, abstract #QB04.10

A. Wagner, T. Liu, C.K. Gelbke, X. Liu, W.G. Lynch, R.J. Shomin, **W. Tan**, M.B. Tsang, H. Xi, H. Xu, B. Davin, Y. Larochelle, R.T. De Souza, R. Yanez, R.J. Charity, L.G. Sobotka, *Imaging of sources in $\text{Sn} + \text{Sn}$ collisions at $E/A=50$ MeV*, March 20-26, 1999., Atlanta, GA., 1999 Joint Meeting of APS and AAPT, abstract #QB04.12

W. Tan, W. Lynch, H.F. Xi, and A. Botvina, *Secondary Decay and the Statistical Multifragmentation Model*, Bull. Am. Phys. Soc. 43, No. 2, 1126 (1998)

Invited Lectures and Seminars

X-ray bursts and the $^{15}\text{O}(\alpha, \gamma)$ reaction rate, HRIBF Workshop - Nuclear Measurements for Astrophysics, October 23-24, 2006

X-ray bursts via the breakout from the CNO cycle, JINA lunch research discussion at Michigan State University, East Lansing, MI, May 1, 2006

Nuclear Fireworks in Stars via the Breakout from the CNO cycle, colloquium at University of Notre Dame, Notre Dame, IN, Apr. 19, 2006

Breakout from the CNO cycle and the $^{15}\text{O}(a, g)$ reaction rate, nuclear seminar at University of Notre Dame, Notre Dame, IN, Mar. 27, 2006

Breakout from the CNO cycle via $^{15}O(\alpha, \gamma)$ in explosive stellar burning, nuclear seminar at University of Tennessee, Knoxville, TN, Mar. 15, 2006

Lifetimes of the astrophysically important states in ^{19}Ne , Frontiers 2005 JINA conference, East Lansing, Michigan, August 20-22, 2005

Isospin Effect in Multifragmentation and Its Application in Astrophysics, seminar, School of Physics, Beijing University, China, Mar. 12, 2003

Invited Serial Lectures on Isospin Effect and Approaching Equilibrium in Medium Energy Heavy Ion Collisions, CCAST workshop, Beijing, China, Mar. 3 - 7, 2003

Isospin Effects and Freeze-out Mechanism in Multifragmentation Processes, nuclear seminar at Indiana University, Bloomington, September 13, 2002

Isospin Effects and Freeze-out Mechanism in Multifragmentation Processes, nuclear seminar at University of Notre Dame, July 26, 2002

Isospin Dependence of the EOS from Fragmentation, Notre Dame Workshop on Nuclear Incompressibility, Notre Dame, Indiana, Jan 30-31, 2001

The Statistical Multifragmentation Model (SMM) and Nuclear Isotope Thermometry, nuclear science seminar at the NSCL, Michigan State University, April 19, 2000

Other Presentations

W. P. Tan, J. Görres, J. Daly, M. Couder, A. Couture, H. Y. Lee, E. Stech, E. Strandberg, C. Ugalde, and M. Wiescher, *Threshold states in ^{19}Ne and the CNO breakout reaction $^{15}O(\alpha, \gamma)^{19}Ne$* , The 12th International Conference on Capture Gamma-Ray Spectroscopy, Notre Dame, Indiana, September 4-9, 2005

W. P. Tan, J. Görres, J. Daly, M. Couder, A. Couture, H. Y. Lee, E. Stech, E. Strandberg, C. Ugalde, and M. Wiescher, *Lifetime of the astrophysically important states in ^{19}Ne* , Frontiers 2005 JINA conference, East Lansing, Michigan, August 20-22, 2005

W.P. Tan, C.K. Gelbke, T.X. Liu, X.D. Liu, W.G. Lynch, M.B. Tsang, M.J. Van Goethem, G. Verde, A. Wagner, H.F. Xi, H.S. Xu, L. Beaulieu, B. Davin, Y. Larochelle, T. Lefort, R.T. de Souza, R. Yanez, V. Viola, R.J. Charity, and L.G. Sobotka, *A new method of analyzing particle correlations in multifragmentation*, APS DNP meeting, East Lansing, Michigan, October 9-12, 2002

W.P. Tan, C.K. Gelbke, W.G. Lynch, M.B. Tsang, S.R. Souza, R. Donangelo, and R.J. Charity, *Importance of empirical information in the statistical multifragmentation model*, APS DNP meeting, East Lansing, Michigan, October 9-12, 2002

W.P. Tan, *Probing Freeze-Out Density via Particle Correlations*, presented at the poster session of 2002 Gordon Research Conference on Nuclear Chemistry, New London, New Hampshire, June 16-21, 2002

W.P. Tan, B.-A. Li, R. Donangelo, C.K. Gelbke, M.-J. van Goethem, X.D. Liu, W.G. Lynch, S. Souza, M.B. Tsang, G. Verde, A. Wagner, and H.S. Xu, *Probing the Isospin Dependence of the EOS in Fragmentation*, presented at the poster session of International Nuclear Physics Conference, Berkeley, California, July 30-August 3, 2001

W.P. Tan, *Nuclear Isotope Thermometry*, presented at the poster session of 2000 Gordon Research Conference on Nuclear Chemistry, New London, New Hampshire, June 18-22, 2000

Wanpeng Tan, W.G. Lynch, C.K. Gelbke, P. Hosmer, M.B. Tsang, D. Zhabinski, and B.-A. Li, *Determination of the Isospin Dependence of the EOS with Isotopic Distributions*, Bull. Am. Phys. Soc. 45, No. 5, 40 (2000)

Wanpeng Tan, W. Lynch, M.B. Tsang, S.R. Souza, and R. Donangelo, *Nuclear Isotope Thermometry and the Finite-Size Effects*, Bull. Am. Phys. Soc. 45, No. 2, 117 (2000)

Wanpeng Tan, W.G. Lynch, S. Souza, and R. Donangelo, *The Importance of Precise Structure Information to the Statistical Multifragmentation Model*, Bull. Am. Phys. Soc. 44, No. 1, 1140 (1999)

W. Tan, W. Lynch, H.F. Xi, and A. Botvina, *Secondary Decay and the Statistical Multifragmentation Model*, Bull. Am. Phys. Soc. 43, No. 2, 1126 (1998)

Other Notable Contributions

- Developed a photo-diode charged particle detection array for p-nuclei studies.
- Implemented the NSCL data acquisition system and gave corresponding lectures at Notre Dame.
- Developed a low-energy silicon detection array (LESA) at Notre Dame for studies of low energy nuclear astrophysics.
- Developed an improved Doppler Shift Attenuation Method with realistic simulation technique at Notre Dame for nuclear lifetime studies.
- Developed an empirical statistical multifragmentation and secondary decay model at Michigan State University for heavy ion studies.
- Played the major role in developing the LASSA at Michigan State University, which consists of 432 Silicon channels and 36 CsI(Tl) channels for studies of heavy ion reactions