

Wanpeng Tan

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Education

- 2002 Ph.D. Experimental Nuclear Physics, Michigan State University
- 1997 M.S. Physics, Institute of Theoretical Physics, Chinese Academy of Sciences, Beijing, China
- 1994 B.S. Physics, Beijing University, Beijing, China

Positions

- 2011-present Adjunct Faculty, Radiological Technologies University-VT, South Bend, Indiana
- 2007-present Research Assistant Professor/Assistant Professional Specialist, Department of Physics, University of Notre Dame, and Joint Institute for Nuclear Astrophysics (JINA)
- 2003-2006 Postdoctoral Research Associate, Department of Physics, University of Notre Dame
- 1997-2002 Graduate Assistant, Department of Physics and National Superconducting Cyclotron Laboratory, Michigan State University
- 1995-1997 Graduate Assistant, Institute of Theoretical Physics, Chinese Academy of Sciences, Beijing, China,
- 1993-1994 Undergraduate research assistant, Beijing University, Beijing, China

Distinctions and Honors

- 2003 Lectureship of Overseas Young Returning Scientists Program, China Center of Advanced Science and Technology (CCAST), Beijing
- 1994 Ye Qi-Xun Experimental Physics Prize, Beijing University
- 1994 Excellent Graduate of Colleges in Beijing, Beijing University

Service Activities

- 2012-present Contact Person of the CloverShare program at Notre Dame
- 2007 Organizing Committee, JINA Frontiers 2007 conference
- 2007- present User liaison of the Nuclear Science Laboratory at Notre Dame
- 2006-present Managing the data acquisition systems of the Nuclear Science Laboratory at Notre Dame

Professional Memberships

American Physical Society

Research Instrumentation Experiences

- (in process) developing high efficiency liquid scintillation detector array for very low energy neutrons at Notre Dame.
- (in process) renovating and improving ICEBALL for conversion electron spectroscopy acquired from Yale University.
- Developed large area Silicon-strip detector Array at Notre Dame (SAND).
- Implemented the ASIC electronics and associated data acquisition system at Notre Dame.
- Developed the pulsed low-energy neutron beam technique at Notre Dame for testing dark matter detectors.
- Improved A0 and CIGAR codes for the study of astrophysical p-process.
- Designed and developed a Neutron Time-Of-Flight Beam Line Facility at Notre Dame.
- Developed a Photo-Diode Charged Particle Detection Array for p-nuclei studies at Notre Dame.
- 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

Teaching/Supervising Experiences

Co-supervised PhD students (by leading and supervising experiments and data analysis):

Annalia Palumbo on *astrophysical p-process experiments*, graduated in 2009

Sergio Almaraz-Calderon on *$^{14}\text{O}(\alpha,p)$ and $^{26}\text{Si}(\alpha,p)$ reaction rates*, graduated in 2011

Richard James deBoer on *$^{22}\text{Ne}(\alpha,n)$ related experiments*, graduated in 2011

Anthony Battaglia on *ICEBALL development*, 3rd year student

Co-supervised undergraduate students (REU) (by supervising experiments & data analysis):

Fred Jung on *beam bunching development* and poster presented at the 2009 APS DNP meeting

Patrick Copp on *alpha-cluster experiments* and poster presented at the 2010 APS DNP meeting

Andrew Arend on *PIXE and activation experiments* and poster presented at the 2011 APS DNP meeting

Ian Marsh and Mike Robbe on *ASIC readout system* and poster presented at the 2012 APS DNP meeting

PHY403 - Fundamentals of Nuclear Physics, 2011-present

This is a 3-credit online course at Radiological Technologies University-VT, South Bend, Indiana.

PIXE-PAN 2007-2009 summer programs for high school students

This is a two-week resident science program each summer for high school seniors and juniors (~15 participants each summer). I guided the participants to perform a series of experiments using the particle accelerator and other state of art equipment in the Advanced Physics Teaching Laboratory at Notre Dame.

School of Data Acquisition at Notre Dame, 2006:

I taught this non-credit mini-course for an audience of about 20 people (mainly graduate students).

Oral Presentations:

many short contributed conference talks + 20 invited lectures and seminars (see below).

Invited Lectures and Seminars

- *Nuclear reaction rates for accreting neutron stars*, invited talk at the 22nd International Conference on the Application of Accelerators in Research and Industry (CAARI2012), Fort Worth, Texas, Aug. 6, 2012
- *Systematic study of α -optical potential near the $Z = 50$ region for p -process*, invited talk at the p -Process Workshop, Istanbul, Turkey, May 25, 2011
- *Nuclear reaction rates for accreting neutron stars*, seminar at the University of Manchester, UK, Sep. 16, 2010
- *Alpha-induced reactions for accreting neutron stars*, seminar at the University of Liverpool, UK, Sep. 14, 2010
- *Nuclear Physics of X-ray Bursts*, China Institute for Atomic Energy seminar, Beijing, China, Aug. 24, 2009
- *Alpha-induced reaction rates for accreting compact stars*, invited at the CRUST 2009 meeting, Santa Fe, NM, May 18-21, 2009
- *Nuclear Experiments for the Physics of X-ray Bursts*, at an invited session of the April 2008 Meeting of the American Physical Society, St. Louis, Missouri, Apr. 12-15, 2008
- *The nuclear trigger for X-ray bursts*, INPP seminar at the Ohio University, Athens, OH, Jan. 16, 2007
- *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 $^{15}\text{O}(\alpha,\gamma)$ reaction rate*, nuclear seminar at University of Notre Dame, Notre Dame, IN, Mar. 27, 2006

- *Breakout from the CNO cycle via $^{150}(a,g)$ 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

Refereed Publications

1. Tz. Kokalova, M. Freer, N. Curtis, N. I. Ashwood, M. Barr, J. D. Malcolm, C. Wheldon, V. A. Ziman, S. Almaraz-Calderon, A. Aprahamian, B. Bucher, M. Couder, X. Fang, F. Jung, W. Lu, A. Roberts, **W. P. Tan**, P. Copp, and S. R. Leshner, *Yield measurements for resonances above the multi- α threshold in ^{20}Ne* , Phys. Rev. C 87, 057309 (2013)
2. A. Simon, A. Spyrou, T. Rauscher, C. Fröhlich, S. J. Quinn, A. Battaglia, A. Best, B. Bucher, M. Couder, P. A. DeYoung, X. Fang, J. Görres, A. Kontos, Q. Li, L.-Y. Lin, A. Long, S. Lyons, A. Roberts, D. Robertson, K. Smith, M. K. Smith, E. Stech, B. Stefanek, **W. P. Tan**, X. D. Tang, and M. Wiescher, *Systematic study of (p,γ) reactions on Ni isotopes*, Phys. Rev. C 87, 055802 (2013)
3. A. Best, M. Beard, J. Görres, M. Couder, R. deBoer, S. Falahat, R. T. Güray, A. Kontos, K.-L. Kratz, P. J. LeBlanc, Q. Li, S. O'Brien, N. Özkan, M. Pignatari, K. Sonnabend, R. Talwar, **W. P. Tan**, E. Überseder, and M. Wiescher, *Measurement of the reaction $^{17}\text{O}(\alpha,n)^{20}\text{Ne}$ and its impact on the s process in massive stars*, Phys. Rev. C 87, 045805 (2013)
4. M. Gulino, C. Spitaleri, X. D. Tang, G. L. Guardo, L. Lamia, S. Cherubini, B. Bucher, V. Burjan, M. Couder, P. Davies, R. deBoer, X. Fang, V. Z. Goldberg, Z. Hons, V. Kroha, L. Lamm, M. La Cognata, C. Li, C. Ma, J. Mrazek, A. M. Mukhamedzhanov, M. Notani, S. O'Brien, R. G. Pizzone, G. G. Rapisarda, D. Roberson, M. L. Sergi, **W. P. Tan**, I. J. Thompson, and M. Wiescher, *Suppression of the centrifugal barrier effects in the off-energy-shell neutron+ ^{17}O interaction*, Phys. Rev. C 87, 012801(R) (2013)
5. A. Simon, S.J. Quinn, A. Spyrou, A. Battaglia, I. Beskin, A. Best, B. Bucher, M. Couder, P.A. DeYoung, X. Fang, J. Görres, A. Kontos, Q. Li, S.N. Liddick, A. Long, S. Lyons, K. Padmanabhan, J. Peace, A. Roberts, D. Robertson, K. Smith, M.K. Smith, E. Stech, B. Stefanek, **W.P. Tan**, X.D. Tang, and M. Wiescher, *SuN: Summing NaI(Tl) gamma-ray detector for capture reaction measurements*, Nucl. Instr. Meth. A **703**, 16 (2013)

6. S. Almaraz-Calderon, **W. P. Tan**, A. Aprahamian, et al., *Level structure of ^{30}S and its importance in the $^{26}\text{Si}(\alpha,p)^{29}\text{P}$ and $^{29}\text{P}(p,\gamma)^{30}\text{S}$ reaction rates*, Phys. Rev. C 86, 065805 (2012)
7. S. Almaraz-Calderon, **W. P. Tan**, A. Aprahamian, B. Bucher, A. Roberts, M. Wiescher, C. R. Brune, T. N. Massey, N. Özkan, R.T. Güray, and H. Mach, *Level structure of ^{18}Ne and its importance in the $^{14}\text{O}(\alpha,p)^{17}\text{F}$ reaction rate*, Phys. Rev. C 86, 025801 (2012)
8. T. X. Liu, W. G. Lynch, R. H. Showalter, M. B. Tsang, X. D. Liu, **W. P. Tan**, M. J. van Goethem, G. Verde, A. Wagner, H. F. Xi, H. S. Xu, M. A. Famiano, R. T. de Souza, V. E. Viola, R. J. Charity, and L. G. Sobotka, *Isospin observables from fragment energy spectra*, Phys. Rev. C 86, 024605 (2012)
9. A. Palumbo, **W. P. Tan**, J. Görres, A. Best, M. Couder, R. Crowter, R. J. deBoer, S. Falahat, P. J. LeBlanc, H. Y. Lee, S. O'Brien, E. Strandberg, M. Wiescher, J. P. Greene, Zs. Fülöp, G. G. Kiss, E. Somorjai, N. Özkan, G. Efe, and R.T. Güray, *Systematic study of the alpha-optical potential via elastic scattering near the $Z = 50$ region for p -process nuclei*, Phys. Rev. C 85, 035808 (2012)
10. A. Palumbo, **W. P. Tan**, J. Görres, M. Wiescher, N. Özkan, R.T. Güray, and C. Yalçın, *Measurement of $^{120}\text{Te}(\alpha,n)$ cross sections relevant to the astrophysical p -process*, Phys. Rev. C 85, 028801 (2012)
11. M. Notani, H. Esbensen, X. Fang, B. Bucher, P. Davies, C. L. Jiang, L. Lamm, C. J. Lin, C. Ma, E. Martin, K. E. Rehm, **W. P. Tan**, S. Thomas, X. D. Tang, and E. Brown, *Correlation between the $^{12}\text{C}+^{12}\text{C}$, $^{12}\text{C}+^{13}\text{C}$, and $^{13}\text{C}+^{13}\text{C}$ fusion cross sections*, Phys. Rev. C 85, 014607 (2012)
12. M. Freer, S. Almaraz-Calderon, A. Aprahamian, N. I. Ashwood, M. Barr, B. Bucher, P. Copp, M. Couder, N. Curtis, X. Fang, F. Jung, S. Leshner, W. Lu, J. D. Malcolm, A. Roberts, **W. P. Tan**, C. Wheldon, and V. A. Ziman, *Evidence for a new ^{12}C state at 13.3 MeV*, Phys. Rev. C **83**, 034314 (2011)
13. P. J. LeBlanc, G. Imbriani, J. Görres, M. Junker, R. Azuma, M. Beard, D. Bemmerer, A. Best, C. Broggini, A. Cacioli, P. Corvisiero, H. Costantini, M. Couder, R. deBoer, Z. Elekes, S. Falahat, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, F. Käppeler, A. Kontos, R. Kuntz, H. Leiste, A. Lemut, Q. Li, B. Limata, M. Marta, C. Mazzocchi, R. Menegazzo, S. O'Brien, A. Palumbo, P. Prati, V. Roca, C. Rolfs, C. Rossi Alvarez, E. Somorjai, E. Stech, O. Straniero, F. Strieder, **W. P. Tan**, F. Terrasi, H. P. Trautvetter, E. Uberseder, and M. Wiescher, *Constraining the S factor of $^{15}\text{N}(p,\gamma)^{16}\text{O}$ at astrophysical energies*, Phys. Rev. C **82**, 055804 (2010)
14. H. Costantini, R. J. deBoer, R. E. Azuma, M. Couder, J. Görres, J. W. Hammer, P. J. LeBlanc, H. Y. Lee, S. O'Brien, A. Palumbo, E. C. Simpson, E. Stech, **W. P. Tan**, E. Uberseder, and M. Wiescher, *$^{16}\text{O}(\alpha,g)^{20}\text{Ne}$ S factor: Measurements and R -matrix analysis*, Phys. Rev. C **82**, 035802 (2010)
15. **W.P. Tan**, S. Almaraz, A. Aprahamian, B. Bucher, J. Görres, H. Mach, M. Wiescher, C. Brune, Z. Heinen, T. Massey, *alpha-Induced Reaction Rates for Accreting Compact Stars*, Nucl. Phys. A 834, 679c (2010)
16. Masahiro Notani, P. Davies, B. Bucher, X. Fang, L. Lamm, C. Ma, E. Martin, **W. P. Tan**, X.D. Tang, S. Thomas, C.L. Jiang, *Study of the hindrance effect in sub-barrier fusion reactions*, Nucl. Phys. A 834, 192c (2010)
17. R. T. Güray, N. Özkan, C. Yalçın, A. Palumbo, R. deBoer, J. Görres, P. J. Leblanc, S. O'Brien, E. Strandberg, **W. P. Tan**, M. Wiescher, Zs. Fülöp, E. Somorjai, H. Y. Lee, and J. P. Greene, *Measurements of proton-induced reaction cross sections on ^{120}Te for the astrophysical p process*, Phys. Rev. C **80**, 035804 (2009)

18. H. Y. Lee, M. Couder, A. Couture, S. Falahat, J. Görres, L. Lamm, P. J. LeBlanc, S. O'Brien, A. Palumbo, E. Stech, E. Strandberg, **W. Tan**, C. Ugalde, and M. Wiescher, *Cross-section measurement of the $^{18}\text{F}(\alpha, p)^{21}\text{Ne}$ reaction and possible implication for neutron production in explosive helium burning*, Phys. Rev. C **80**, 025805 (2009)
19. **W. P. Tan**, J. Görres, M. Beard, M. Couder, A. Couture, S. Falahat, J. L. Fisker, L. Lamm, P. J. LeBlanc, H. Y. Lee, S. O'Brien, A. Palumbo, E. Stech, E. Strandberg, and M. Wiescher, *Measurement of the decay branching ratios of the alpha-unbound states in ^{19}Ne and the $^{15}\text{O}(\alpha, g)$ reaction rate*, Phys. Rev. C **79**, 055805 (2009)
20. E. Strandberg, M. Beard, M. Couder, A. Couture, S. Falahat, J. Görres, P. J. LeBlanc, H. Y. Lee, S. O'Brien, A. Palumbo, E. Stech, **W. P. Tan**, C. Ugalde, M. Wiescher, H. Costantini, K. Scheller, M. Pignatari, R. Azuma, and L. Buchmann, *$^{24}\text{Mg}(\alpha, \gamma)^{28}\text{Si}$ resonance parameters at low α -particle energies*, Phys. Rev. C **77**, 055801 (2008)
21. John P. Greene, Annalia Palumbo, **Wanpeng Tan**, Joachim Görres, and Michael C. Wiescher, *Production of stable tellurium evaporated targets*, Nucl. Instr. Meth. A **590**, 76 (2008)
22. C. Ugalde, R. E. Azuma, A. Couture, J. Görres, H. Y. Lee, E. Stech, E. Strandberg, **W. Tan**, and M. Wiescher, *Thermonuclear rate for the $^{19}\text{F}(\alpha, p)^{22}\text{Ne}$ reaction at stellar temperatures*, Phys. Rev. C **77**, 035801 (2008)
23. A. Couture, M. Beard, M. Couder, J. Görres, L. Lamm, P. J. LeBlanc, H. Y. Lee, S. O'Brien, A. Palumbo, E. Stech, E. Strandberg, **W. Tan**, E. Uberseder, R. Azuma, C. Ugalde, and M. Wiescher, *Measurement of the $^{19}\text{F}(p, g)^{20}\text{Ne}$ reaction and interference terms from $E_{c.m.}=200\text{--}760\text{ keV}$* , Phys. Rev. C **77**, 015802 (2008)
24. T. X. Liu, W. G. Lynch, M. B. Tsang, X. D. Liu, R. Shomin, **W. P. Tan**, G. Verde, A. Wagner, H. F. Xi, H. S. Xu, B. Davin, Y. Larochelle, R. T. de Souza, R. J. Charity, and L. G. Sobotka, *Isospin diffusion observables in heavy-ion reactions*, Phys. Rev. C **76**, 034603 (2007)
25. Jacob Lund Fisker, **Wanpeng Tan**, Joachim Goerres, Michael Wiescher, and Randall L. Cooper, *The $^{15}\text{O}(\alpha, \gamma)^{19}\text{Ne}$ Reaction Rate and the Stability of Thermonuclear Burning on Accreting Neutron Stars*, Astrophys. J. **665**, 637-641 (2007)
26. M. Wiescher, G.P.A. Berg, M. Couder, J.L. Fisker, Y. Fujita, J. Görres, M.N. Harakeh, K. Hatanaka, A. Matic, **W. Tan** and A.M. van den Berg, *Astrophysical nuclear reactions and the break-out from the hot CNO cycles*, Progress in Particle and Nuclear Physics **59**, 51-65 (2007)
27. G. Verde, P. Danielewicz, W.G. Lynch, C.F. Chan, C.K. Gelbke, L.K. Kwong, T.X. Liu, X.D. Liu, D. Seymour, R. Shomin, **W.P. Tan**, M.B. Tsang, A. Wagner, H.S. Xu, D.A. Brown, B. Davin, Y. Larochelle, R.T. de Souza, R. Yanez, R.J. Charity, and L.G. Sobotka, *d-alpha correlation functions and collective motion in $\text{Xe}+\text{Au}$ collisions at $E/A=50\text{ MeV}$* , Phys. Lett. B **653**, 12 (2007)
28. **W. P. Tan**, J. L. Fisker, J. Görres, M. Couder, and M. Wiescher, *$^{15}\text{O}(\alpha, \gamma)^{19}\text{Ne}$ Breakout Reaction and Impact on X-Ray Bursts*, Phys. Rev. Lett. **98**, 242503 (Editors' Suggestion) (2007)
29. 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)
30. **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 (Rapid Communications) (2005)

31. 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)
32. 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)
33. 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 (Rapid Communications) (2004)
34. 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)
35. **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 (Rapid Communications) (2004)
36. 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 (Rapid Communications) (2004)
37. 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, M. Colonna, M. Di Toro, M. Zielinska-Pfabe, H.H. Wolter, L. Beaulieu, B. Davin, Y. Larochelle, T. Lefort, R.T. de Souza, R. Yanez, V.E. Viola, R.J. Charity, L.G. Sobotka, *Isotope yields from central $^{112,124}\text{Sn} + ^{112,124}\text{Sn}$ collisions: Dynamical emission?*, Phys. Rev. C **69**, 014603 (2004)
38. **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)
39. 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 (Rapid Communications) (2003)
40. 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 (Rapid Communications) (2003)
41. 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)
42. 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 (Rapid Communications) (2002)

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