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Education

1994, B.S., Nanjing University, Nanjing, China

1997, M.S., China Institute of Atomic Energy, Beijing, China

2002, Ph.D., Texas A&M University, College Station, Texas

Employment

August 2006 – Present	Assistant Professor University of Notre Dame, Department of Physics
May 2003–August 2006	Postdoc Physics Division, Argonne National Laboratory, Illinois
May 2002–May 2003	Postdoc Cyclotron Institute, Texas A&M University
Sept. 1997–May 2002	Research Assistant Cyclotron Institute, Texas A&M University
Sept. 1998–May 1999	Teaching Assistant Department of Physics, Texas A&M University
Sept. 1994–Aug. 1997	Research Assistant Department of Physics, China Institute of Atomic Energy, Beijing

Professional Membership

American Physical Society

Refereed Publications

1. "Fusion hindrance for a positive Q-value system," C.L.Jiang, B.B.Back, H.Esbensen, J.P.Greene, R.V.F.Janssens, D.J.Henderson, H.Y.Lee, C.J.Lister, M.Notani, R.C.Pardo, N.Patel, K.E.Rehm, D.Seweryniak, B.Shumard, X.Wang, S.Zhu, S.Misicu, P.Collon, X.D.Tang Phys.Rev. C 78, 017601 (2008)
2. "Ultra-sensitive detection of p-process nuclide ^{146}Sm produced by (γ, n) , $(p, 2n\epsilon)$ and $(n, 2n)$ reactions," N.Kinoshita, T.Hashimoto, T.Nakanishi, A.Yokoyama, H.Amakawa, T.Mitsugashira, T.Ohtsuki, N.Takahashi, I.Ahmad, J.P.Greene, D.J.Henderson, C.L.Jiang, M.Notani, R.C.Pardo, N.Patel, K.E.Rehm, R.Scott, R.Vondrasek, L.Jisonna, P.Collon, D.Robertson, C.Schmitt, X.D.Tang, Y.Kashiv, H.Nassar and M.Paul, J.Phys.(London) G35, 014033 (2008)
3. "Structure of ^7He by proton removal from ^8Li with the $(d, ^3\text{He})$ reaction," A.H.Wuosmaa, J.P.Schiffer, K.E.Rehm, J.P.Greene, D.J.Henderson, R.V.F.Janssens, C.L.Jiang, L.Jisonna, J.C.Lighthall, S.T.Marley, E.F.Moore, R.C.Pardo, N.Patel, M.Paul, D.Peterson, S.C.Pieper, G.Savard, R.E.Segel, R.H.Siemssen, X.D.Tang, R.B.Wiringa, Phys.Rev. C 78, 041302 (2008)
4. "New Determination of the Astrophysical S Factor SE_1 of the $^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ Reaction," X. D. Tang, K. E. Rehm, I. Ahmad, C. R. Brune, A. Champagne, J. P. Greene, A. A. Hecht, D. Henderson, R. V. Janssens, C. L. Jiang, L. Jisonna, D. Kahl, E. F. Moore, M. Notani, R. C. Pardo, N. Patel, M. Paul, G. Savard, J. P. Schiffer, R. E. Segel, S. Sinha, B. Shumard, and A. H. Wuosmaa, Phys. Rev. Lett. 99, 052502 (2007)
5. "Pair correlations in nuclei involved in neutrinoless double β decay: ^{76}Ge and ^{76}Se ," S.J.Freeman, J.P.Schiffer, A.C.C.Villari, J.A.Clark, C.Deibel, S.Gros, A.Heinz, D.Hirata, C.L.Jiang, B.P.Kay, A.Parikh, P.D.Parker, J.Qian, K.E.Rehm, X.D.Tang, V.Werner, and C.Wrede, Phys. Rev. C 75, 051301 (2007)
6. "First evidence of fusion hindrance for a small Q-value system," C.L.Jiang, B.B.Back, H.Esbensen, R.V.F.Janssens, S.Misicu, K.E.Rehm, P.Collon, C.N.Davids, J.Greene, D.J.Henderson, L.Jisonna, S.Kurtz, C.J.Lister, M.Notani, M.Paul, R.Pardo, D.Peterson, D.Seweryniak, B.Shumard, X.D.Tang, I.Tanihata, X.Wang, and S.Zhu, Phys. Lett. B 640, 18 (2006)
7. "Indirect techniques in nuclear astrophysics: Asymptotic Normalization Coefficient and Trojan Horse," A.M.Mukhamedzhanov, L.D.Blokhintsev, B.A.Brown, V.Burjan, S.Cherubini, C.A.Gagliardi, B.F.Irgaziev, V.Kroha, F.M.Nunes, F.Pirlepesov, R.G.Pizzone, S.Romano, C.Spitaleri, X.D.Tang, L.Trache, R.E.Tribble, and A.Tumino, Eur. Phys.J. A 27, Supplement 1, 205 (2006)
8. "Structure of ^{12}N using $^{11}\text{C}+p$ resonance scattering," K.Perajarvi, C.Fu, G.V.Rogachev, G.Chubarian, V.Z.Goldberg, F.Q.Guo, D.Lee, D.M.Moltz,

- J.Powell, B.B.Skorodumov, G.Tabacaru, X.D.Tang, R.E.Tribble, B.A.Brown, A.Volya, and J.Cerny, Phys. Rev. C 74, 024306 (2006)
9. “Scattering of ^7Be and ^8B and the astrophysical S_{17} factor,” G. Tabacaru, A. Azhari, J. Brinkley, V. Burjan, F. Carstoiu, Changbo Fu, C.A. Gagliardi, V. Kroha, A.M. Mukhamedzhanov, X. Tang, L. Trache, R.E. Tribble, and S. Zhou, Phys. Rev. C 73, 025808 (2006).
 10. “Hindrance of heavy-ion fusion at extreme sub-barrier energies in open-shell colliding systems,” C.L. Jiang, K.E. Rehm, H. Esbensen, R.V.F. Janssens, B.B. Back, C.N. Davids, J.P. Greene, D.J. Henderson, C.J. Lister, R.C. Pardo, T. Pennington, D. Peterson, D. Seweryniak, B. Shumard, S. Sinha, X.D. Tang, I. Tanihata, S. Zhu, P. Collon, S. Kurtz, M. Paul, Phys. Rev. C 71, 044613 (2005).
 11. “Stellar (n, γ) cross section of ^{62}Ni ,” H. Nassar, M. Paul, I. Ahmad, D. Berkovits, M. Bettan, P. Collon, S. Dababneh, S. Ghelberg, J.P. Greene, A. Heger, M. Heil, D.J. Henderson, C.L. Jiang, C.L.F. Kappeler, H. Koivisto, S. O’Brien, R.C. Pardo, N. Patronis, T. Pennington, R. Plag, K.E. Rehm, R. Reifarth, R. Scott, S. Sinha, X. Tang, R. Vondrasek, Phys. Rev. Lett. 94, 092504 (2005).
 12. “Neutron spectroscopic factors in ^9Li from $^2\text{H}(^8\text{Li},p)^9\text{Li}$,” A.H. Wuosmaa, K.E. Rehm, J.P. Greene, D.J. Henderson, R.V.F. Janssens, C.L. Jiang, L. Jisonna, E.F. Moore, R.C. Pardo, M. Paul, D. Peterson, S.C. Pieper, G. Savard, J.P. Schiffer, R.E. Segel, S. Sinha, X. Tang, R.B. Wiringa, Phys. Rev. Lett. 94, 082502 (2005).
 13. “Laser Spectroscopic Determination of the ^6He Nuclear Charge Radius,” L.-B. Wang, P. Mueller, K. Bailey, G.W.F. Drake, J.P. Greene, D. Henderson, R.J. Holt, R.V.F. Janssens, C.L. Jiang, Z.-T. Lu, T.P. O’Connor, R.C. Pardo, K.E. Rehm, J.P. Schiffer, X.D. Tang, Phys. Rev. Lett. 93, 142501 (2004).
 14. “Determination of the direct capture contribution for $^{13}\text{N}(p,\gamma)^{14}\text{O}$ from the $^{14}\text{O} \rightarrow ^{13}\text{N} + p$ asymptotic normalization coefficient,” X. Tang, A. Azhari, C. Fu, C.A. Gagliardi, A.M. Mukhamedzhanov, F. Pirlpesov, L. Trache, R.E. Tribble, V. Burjan, V. Kroha, F. Carstoiu and B.F. Irgaziev, Phys. Rev. C 69, 055807 (2004).
 15. “First studies of the $^8\text{B}(a, p)^{11}\text{C}$ reaction,” K.E. Rehm, C.L. Jiang, J.P. Greene, D. Henderson, R.V.F. Janssens, E.F. Moore, G. Mukherjee, R.C. Pardo, T. Pennington, J.P. Schiffer, S. Sinha, X.D. Tang, R.H. Siemssen, L. Jisonna, R.E. Segel, A.H. Wuosmaa, Nucl. Phys. A 746, 354c (2004).
 16. “Search for temperature and N/Z dependent effects in the decay of $A = 98$ compound nuclei,” S. Moretto, D. Fabris, M. Lunardon, S. Pesente, V. Rizzi, G. Viesti, M. Barbui, M. Cinausero, E. Fioretto, G. Prete, A. Brondi, E. Vardaci, F. Lucarelli, A. Azhari, X.D. Tang, K. Hagel, Y. Ma, A. Makeev, M. Murray, J.B. Natowitz, L. Qin, P. Smith, L. Trache, R.E. Tribble, R. Wada, J. Wang, Phys. Rev. C 69, 044604 (2004).

17. “Lowlying levels in ^{15}F and the shell model potential for drip-line nuclei,” V.Z. Goldberg, G.G. Chubarian, G. Tabacaru, L. Trache, R.E. Tribble, A. Aprahamian, G.V. Rogachev, B.B. Skorodumov, X.D. Tang, *Phys. Rev. C* 69, 031302 (2004).
18. “Asymptotic normalization coefficients for $^8\text{B} \rightarrow ^7\text{Be} + p$ from a study of $^8\text{Li} \rightarrow ^7\text{Li} + n$,” L. Trache, A. Azhari, F. Carstoiu, H.L. Clark, C.A. Gagliardi, Y.-W. Lui, A.M. Mukhamedzhanov, X. Tang, N. Timofeyuk, R.E. Tribble, *Phys. Rev. C* 67, 062801 (2003).
19. “Asymptotic normalization coefficients from proton transfer reactions and astrophysical S factors for the CNO $^{13}\text{C}(p,\gamma)^{14}\text{N}$ radiative capture process,” A.M. Mukhamedzhanov, A. Azhari, V. Burjan, C.A. Gagliardi, V. Kroha, A. Sattarov, X. Tang, L. Trache, R.E. Tribble, *Nucl. Phys. A* 725, 279 (2003).
20. “Beta decay of ^{62}Ga ,” B.C. Hyman, V.E. Jacob, A. Azhari, C.A. Gagliardi, J.C. Hardy, V.E. Mayes, R.G. Neilson, M. Sanchez-Vega, X. Tang, L. Trache, R.E. Tribble, *Phys. Rev. C* 68, 015501 (2003).
21. “High Precision Measurement of the Superallowed $0^+ \rightarrow 0^+$ β Decay of ^{22}Mg ,” J.C. Hardy, V.E. Jacob, M. Sanchez-Vega, R.G. Neilson, A. Azhari, C.A. Gagliardi, V.E. Mayes, X. Tang, L. Trache, R.E. Tribble, *Phys. Rev. Lett.* 91, 082501 (2003).
22. “Determination of the astrophysical S factor for $^{11}\text{C}(p,\gamma)^{12}\text{N}$ from the $^{12}\text{N} \rightarrow ^{11}\text{C} + p$ asymptotic normalization coefficient,” X. Tang, A. Azhari, C.A. Gagliardi, A.M. Mukhamedzhanov, F. Pirlepsov, L. Trache, R.E. Tribble, V. Burjan, V. Kroha, F. Carstoiu, *Phys. Rev. C* 67, 015804 (2003).
23. “Asymptotic Normalization Coefficients and the $^7\text{Be}(p,\gamma)^8\text{B}$ Astrophysical S Factor,” A. Azhari, V. Burjan, F. Carstoiu, C.A. Gagliardi, V. Kroha, A.M. Mukhamedzhanov, F.M. Nunes, X. Tang, L. Trache, R.E. Tribble, *Phys. Rev. C* 63, 055803 (2001).
24. “The $^{14}\text{N}(^7\text{Be}, ^8\text{B})^{13}\text{C}$ Reaction and the $^7\text{Be}(p,\gamma)^8\text{B}$ S Factor,” A. Azhari, V. Burjan, F. Carstoiu, C.A. Gagliardi, V. Kroha, A.M. Mukhamedzhanov, F.M. Nunes, X. Tang, L. Trache, R.E. Tribble, *Phys. Rev. C* 60, 055803 (1999).
25. “Angular Distribution for the $^7\text{Be}(d,n)^8\text{B}$ Reaction at $E(\text{c.m.}) = 5.8$ MeV and the $S_{17}(0)$ Factor for the $^7\text{Be}(p,\gamma)^8\text{B}$ Reaction,” W. Liu, X. Bai, S. Zhou, Z. Ma, Z. Li, Y. Wang, A. Li, Z. Ma, B. Chen, X. Tang, Y. Han, Q. Shen, *Phys. Rev. Lett.* 77, 611 (1996).

Unrefereed Publications

1. “A New $^{13}\text{N}(p,\gamma)^{14}\text{O}$ Reaction Rate and Its Influence in Novae Nucleosynthesis,” X.D. Tang, A. Azhari, C. Fu, C.A. Gagliardi, A.M. Mukhamedzhanov, F. Pirlepesov, L. Trache, R.E. Tribble, V. Burjan, V. Kroha, F. Carstoiuand, B.F. Irgaziev, American Institute of Physics Conference Proceedings Series, V764, 329(2005).

Invited Talks

“Conquer the challenges: Study of charged-particle-induced reactions at stellar energies,” 20th International Conference on the Application of Accelerators in Research and Industry, Fort Worth, TX, August 10th-15th, 2008

“The ^{16}N β -delayed α decay: Today and Tomorrow,” Carpathian Summer School of Physics 2007, Sinaia, Romania, August 20th-31st, 2007

“A New Measurement of the E1 Component of the $^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ Reaction,” Seminar, Institute of Nuclear & Particle Physics, Ohio University, Athens, Ohio, September 19, 2006.

“The ^{16}N Beta-Delayed Alpha Decay,” NSCL seminar, Michigan State University, East Lansing, Michigan, February 27, 2006

“Helium burning and ^{16}N beta-delayed alpha decay,” Physics Division Seminar, Argonne, Illinois, September 6, 2005

“Digital Bragg curve spectroscopy,” Heavy Ion Discussion, Argonne, Illinois, December, 2004

“Indirect measurements in charged particle induced radiative capture reaction,” Chemical Enrichment of the Early Universe, Santa Fe, New Mexico, August 9-13, 2004

“Determination of Astrophysical S-factors from ANC's via Transfer Reactions,” nuclear physics forum, Berkeley National Laboratory, Berkeley, California, January, 2003