



**NATIONAL SUPERCONDUCTING CYCLOTRON LABORATORY  
MICHIGAN STATE UNIVERSITY**

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Michigan State University  
East Lansing, MI 48824-1321, USA

August 16, 2019

***ManYee Betty Tsang***

Citizenship: U.S.A.

**DEGREES AWARDED:**

Bachelor of Science, California State University, Bakersfield	1973
M.S. Nuclear Chemistry, University of Washington, Seattle	1978
Ph.D Nuclear Chemistry, University of Washington, Seattle	1980

**PROFESSIONAL ACTIVITIES:**

Member, American Physical Society, American Chemical Society  
Vice-Chair, Committee on the International Freedom of Scientists, 1994 (APS)  
Chair, Committee on the International Freedom of Scientists, 1995 (APS)  
Member, DNP program committee, 1995 – 1996  
Member-at-large, Forum of International Physics, APS, 2005-2008  
Vice-Chair, Nuclear Chemistry Gordon Research Conference, 2007  
Chair, Nuclear Chemistry Gordon Research Conference, 2008  
Member, APS Andrei Sakharov Prize Selection Committee, 2007-2009.

**AWARDS**

Heinz-Pagels Human Rights Award, New York Academy of Science, 2000  
*Citations: For extraordinary work in support of scientists under repression.*  
Fellow, American Physical Society, 2006  
*Citations: For her contributions towards the understanding of reaction dynamics, the density dependence of the symmetry energy, and the extraction of spectroscopic factors”*

**APPOINTMENTS:**

Professor, NSCL, Michigan State University	May 1995 - present
Adjunct Professor, Physics Dept, Michigan State University	Dec 1993 - present
Senior Physicist, NSCL, Michigan State University	Sept 1993 - May 1995
Staff Physicist, NSCL, Michigan State University	Sept 1988 - Sept 1993
Physicist, NSCL, Michigan State University	May 1984 - Sept 1988
Research Associate, NSCL, Michigan State University	Dec 1980 - May 1984

Core Faculty, Center for Advance Study of International Development, MSU  
May 2005 - present

**PUBLICATION STATISTICS:**

Refereed Publications: 286 (Phys. Rev. Lett. 57; Rap. Com. 45; Phys. Lett. B. 41);  
Invited Talks: 110; Seminars & Colloquium: 53  
Google “citations” (07/26/17): 14700, h-index=64, i10-index= 225

**FUNDED INTERNATIONAL COLLABORATIVE GRANTS:**

Award Number	Award Date	Expiration Date	Award Amount	Award Title
NSF 8922454	8/1/1990	1/31/1992	\$11,826	US-Federal Republic of Germany Cooperative Research: Bombarding Energy Dependence of Multi-fragmentation (Co-PI)
NSF	9/15/1999	8/31/2003	\$349,322	Development of a High Resolution Charged Particle Array/Rad Beam Experiment (Participant)
NSF 9908727	2/1/2000	1/31/2003	\$12,000	U.S.-Brazil Cooperative Research: Nuclear Multifragmentation at Intermediate Energies (PI)
NSF 0336704	6/15/2003	5/31/2004	\$3,000	International Conference on "Topics in Heavy Ion Collisions", Montreal, Canada, June 25-28, 2003 (PI)
NSF 0124186	1/1/2002	12/31/2005	\$36,000	U.S.-Japan Cooperative Science: Collision Dynamics of Nuclei with High Isospin Asymmetry (PI)
NSF 0228058	4/1/2003	3/31/2007	\$15,800	U.S.-Brazil Collaborative Research: Non-Equilibrium and Isospin Effects in Nuclear Fragmentation (CoPI)
NSF 0218329	8/1/2002	7/31/2006	\$61,520	U.S.-Russia Collaborative Research: Isospin Dependence of Fragmentation and Spallation Reactions (PI)
NSF 0828050	6/1/2008	5/31/2009	\$5,000	Support of Junior Scientists to Participate in the 2008 Gordon Conference on Nuclear Chemistry, new London, NH, June 2008 (PI)
NSF 1042519	9/1/2010	8/31/2011	\$5,000	Support of Junior Scientists to Participate in the 2010 International Symposium on Nuclear Symmetry Energy at Wako, Japan (PI)
DOE DE-08ER41548	7/1/2008	6/30/2009	\$72,000	Benchmarking Heavy Ion Transport Codes PHITS; FLUKA; HETC-HEDS; AND MARS (CoPI)
DOE DE-SC0004835	10/1/2010	9/30/2016	\$1,200,000	U.S.-Japan Collaborative Research: Determination of the Equation of State of Asymmetric Nuclear Matter (PI)
DOE DE-SC0014530	8/15/2015	8/14/2018	\$675,000	Constraining the Equation of State of Dense Neutron-rich Matter (PI)
NNSA DE-NA0002923	3/15/2016	3/14/2019	\$600,000	NNSA/SSAA Research: Asymmetric Nuclear Matter under Extreme Conditions (CoPI)
NNSA DE-NA000	3/15/2019	3/14/2021	\$675,000	NNSA/SSAA Research: Asymmetric Nuclear Matter under Extreme Conditions (CoPI)

**Service:**

International Advisor, “7<sup>th</sup> International Symposium on Nuclear Symmetry Energy” NuSYM17, September 4-7, 2017, GANIL, France.  
International Advisor, “8<sup>th</sup> International Symposium on Nuclear Symmetry Energy” NuSYM18, September 10-13, 2018, Busan, S. Korea.

International Advisor, “Transport workshop” September 14-15, 2018, Busan, S. Korea.  
International Advisor, “Fourth Topical Workshop on Modern Aspects in Nuclear Structure: The Many Facets of Nuclear Structure” 19-25 February 2019, Bormio, Italy  
Convenor of the EOS working group for the 2<sup>nd</sup> China-US-RIB Meeting on Physics of Nuclei and Hadrons, October 16-28, 2017, Beijing, China.  
Chair, writing group of the final report for the Working Group on “Nature of Dilute and Dense Nuclear Matter and Equation of State” for the 2014 Nuclear Physics Long Range Plan.  
Member, writing group of final report, International Collaborations on Nuclear Theory, July 15-August 9, 2013, East Lansing, MI, USA  
Gordon Research Conference on Nuclear Chemistry, 2008, Chair; 2007, V. Chair.  
Chair, NSCL Library Committee, 1991-present  
Chair, NSCL Thursday Research Discussions, 2012  
Chair, NSCL Women and Minorities in Science Lecture Series, 2010-2011  
Chair, NSCL Computer Committee, 2007-2008  
Member: MSU Woman Advisory Committee to the Provost, 2005-2008  
Member, MSU Woman Advisory Committee to the Provost, 2005-2008  
Member: NSCL Director Search Committee, 1992  
Member, Grade 4 Mathematics Standard Setting Committee, State of Michigan  
Coordinator of Nuclear Physics Preprint Service (1991-2000)  
Member: MSU John Hannah Distinguished Professor Search Committee, 1993  
Member: MSU Physics Department Assistant Professor Search Committee, 1993  
Member: MSU Physics Department Assistant Professor Search Committee, 2003

International Advisor, “Forth Topical Workshop on Modern Aspects in Nuclear Structure: The Many Facets of Nuclear Structure” 19-25 February 2018, Bormio, Italy  
Co-Organizer, 2017 International Collaboration in Nuclear Theory on Extracting Bulk Properties of Neutron-Rich Matter with Transport Models in Bayesian Perspective, March 22 – April 12, 2017, East Lansing, MI, USA  
Co-Organizer, Transport 2017: International Workshop on Transport Simulations for Heavy Ion Collisions under Controlled Conditions, March 27 – March 31, 2017, East Lansing, MI, USA  
Co-Organizer: “SpiRIT Collaboration meeting”, March 26, 2017, FRIB, USA  
International Advisor, “7<sup>th</sup> International Symposium on Nuclear Symmetry Energy” NuSYM17, September 4-7, 2017, GANIL, France.  
International Advisor, “6<sup>th</sup> International Symposium on Nuclear Symmetry Energy” NuSYM16, June 14 – 17, 2016, Beijing, China.  
International Advisor, “5<sup>th</sup> International Symposium on Nuclear Symmetry Energy” NuSYM15, June 29 – July 2, 2015, Krakow, Poland.  
Co-organizer: “SpiRIT Collaboration meeting”, June 5-6, 2015, RIKEN, Japan  
Co-organizer: “Workshop on Science with the SpiRIT Time Projection Chamber”, June 5-6, 2015, RIKEN, Japan  
Organizer of the Working Group on “Nature of Dilute and Dense Nuclear Matter and Equation of State” for the 2014 Nuclear Physics Long Range Plan. Low Energy Town Meeting on Long Range Plan, August 21-23, 2014, College Station, TX, USA.

Co-organizer, “International Workshop on Simulations of Low and Intermediate Energy Heavy Ion Collisions”, Jan 8-12, 2014, Shanghai, China.

Co-organizer, “International Workshop on Simulations of Low and Intermediate Energy Heavy Ion Collisions”, Jan 8-12, 2014, Shanghai, China.

Member, International Advisory Committee, “the 4th International Workshop on Nuclear Dynamics in heavy-ion reactions (IWND2014)” August 15-19, 2014, Lanzhou, China

Member: Organizing Committee: International Symposium on Nuclear Symmetry Energy, July 07-09, 2014, Liverpool, United Kingdom.

Co-organizer: Equation of State Working Group, Low Energy Community Meeting, August 23-24, 2013, East Lansing, MI, USA.

Chair (Organizing Committee): International Symposium on Nuclear Symmetry Energy, July 22-26, 2013, East Lansing, MI, USA

Co-organizer: International Collaborations on Nuclear Theory, July 15-August 9, 2013, East Lansing, MI, USA

Member, International Program Committee member: Nuclear Data for Science and Technology, March 4-8, 2013, New York, NY, USA.

Member, International Advisory Committee, International workshop on nuclear dynamics in heavy-ion reactions and the symmetry energy (IWND12) Dec 17–19, 2012, Shenzhen, China

Member, International Advisory Committee, ASY-EOS-2012 workshop, September 4-6, 2012, Syracuse, Sicily, Italy.

Member: Organizing Committee: International Symposium on Nuclear Symmetry Energy, June 17-20, 2011, Smith College, Northampton, MA, USA

Co-organizer: School of Nuclear Transport, July 4-7, 2011, Pohang, S. Korea.

Co-organizer: International Symposium on Nuclear Symmetry Energy, July 26-28, 2010, RIKEN, Wako, Japan.

Member, International Advisory Committee, ASY-EOS-2010 workshop, May, 2010, Noto, Italy.

Member, International Advisory Committee, International workshop on nuclear dynamics in heavy-ion reactions and the symmetry energy (IWND09) August 23–25, 2009, Shanghai, China

Co-organizer: International Workshop on Nuclear Collisions and Nuclear Matter, December 16-17, 2008, RIKEN, Wako, Japan.

Co-organizer: Andrei Sakharov Award session, APS April meeting, St. Louis, April 14, 2008.

Co-organizer: “International Gender Issues in Physics—Panel Discussion”, APS April meeting, St. Louis, April 12, 2008.

Co-organizer: “International Gender Issues in Physics—Panel Discussion”, APS March meeting, New Orleans, March 13, 2008.

Co-organizer: “Nuclear EOS in the Laboratory and in Astrophysics” for the NSAC Long Range Plan, 2007.

Co-organizer: “In Heavens and on Earth 2006, the Nuclear Equation of State in Astrophysics”, Montreal, Canada, July 5-7, 2006.

Co-organizer: “Science with radioactive Beam”, Pacificchem 2005, Honolulu, Hawaii, Dec 15-19, 2005.

Co-organizer: “Nuclear Equation of State used in Astrophysics Models”, 228<sup>th</sup> National American Chemical Society Meeting, Philadelphia, Pennsylvania, USA, August 25-26, 2004.

Co-organizer: “Topics in Heavy Ion Collisions”, McGill University, Montreal, Canada, June 25-28, 2003.

Co-organizer: “Nuclear Reactions from Dynamics to Thermodynamics”, Nuclear Chemistry Gordon Conference, Colby-Sawyer College, New London, NH, June 16 – 21, 2002.

Co-organizer: “Science with radioactive Beam”, Pacificchem 2000, Honolulu, Hawaii, Dec 15-19, 2000.

Organizer: “Probing Nuclear Matter at Extreme Condition”, 214<sup>th</sup> National American Chemical Society meeting, Las Vegas, Sept 8-11, 1997.

Co-organizer: “Multifragmentation from Classical to Quantal Systems”, Invited Session, DNP/CAM joint spring meeting, Washington DC, April 18-21, 1997.

Co-organizer: “Nuclear Structure: Superdeformation and Weak Interaction Studies”, Invited Session, DNP/CAM joint spring meeting, Washington DC, April 18-21, 1997.

Co-organizer: “Probing Dense Matter -- Collective Flow”, Mini-symposium, DNP/CAM joint spring meeting, Washington DC, April 18-21, 1997.

Co-organizer: “Nuclear Temperature Measurements”, Mini-symposium, DNP Fall meeting, Cambridge, MA, Oct 2-5, 1996

Co-organizer: “Halo Nuclei”, Mini-symposium, DNP Fall meeting, Cambridge, MA, Oct 2-5, 1996

Co-organizer: “Determining the final break up conditions in nuclear collisions”, Invited Session for the APS/AAPT meeting, Indianapolis, May 2-5, 1996.

Co-organizer: “Gull Lake 95”, Gull Lake, MI, Aug. 28-30, 1995.

Co-organizer: “Hot and Expanding Nuclear Matter”, 210<sup>th</sup> National American Chemical Society meeting, Chicago, IL, Aug 20-25, 1995

Organizer: “Freedom of Scientists Worldwide”, Invited Session for the APS/AAPT meeting, Washington D.C., April 18-21, 1995.

DOE Referee -- Nuclear Physics Division

NSF Referee -- Nuclear Physics Division

Physical Review C Referee

Physical Review Letter Referee

Physical Letter B Referee

Nuclear Instrument and Methods A Referee

## **GRADUATE STUDENT THESIS COMMITTEE**

“The Onset of Vaporization in  $^{197}\text{Au}+^{197}\text{Au}$  Collisions”, Wen-Chien Hsi, May, 1995

“Investigation of Hot Dilute and Hot Compressed Nuclear Matter”, Min-Jui Huang, 1997

“Examining the Caloric Curve in Ar+Sc and Kr+Nb systems”, Richard Shomin, 2003.

“Transport Phenomena in Heavy-Ion Reactions”, Lijun Shi, 2003.

“Isospin Dynamics and Isospin Dependent EOS”, Tianxiao Liu, 2005.

“Ground-state Proton Decay of  $^{69}\text{Br}$  and Implications for the  $^{68}\text{Se}$  astrophysical rp-process waiting point”, Andrew Rogers, 2009

“Proton-Proton Correlation Functions as a Probe to Reaction Dynamics”, Micha Kilburn, 2011

“Neutron Spectroscopic Factors of  $^{56}\text{Ni}$ ”, Alisher Sanetullaev, 2011.

“Superallowed Fermi  $\beta$ -Decay Studies Using Direct Nuclear Reactions”, Kyle G. Leach, University of Guelph, 2012

“Probing the Nuclear Symmetry Energy with Heavy Ion Collisions”, Daniel Coupland, 2013

“Dissipation and Dynamics in Quantum Many-Body Systems” Brent Barker, 2013

Bulk Nuclear Properties from Dynamical Description of Heavy-Ion Collisions” Jun Hong, 2016

“Design and Construction of S $\pi$ RIT Time Projection Chamber”, Suwat Tangwanchaoen, 2016

Jon Barney, 2019, Justin Estee, 2020, Sean Sweany, 2020, Hao Lin, 2019, Pierre Nzabahimana, 2022

### **CHAIR, GRADUATE STUDENT THESIS COMMITTEE**

Xiaodong Liu, “The Study of (p,d) Reactions on  $^{13}\text{C}$ ,  $^{11}\text{B}$  and  $^{10}\text{Be}$  in inverse kinematics”, 2005 (Staff, SMPS)

Michal Mocko, “Rare Isotope Production”, 2006 (Staff, LANL)

Jenny Lee, “Transfer Reactions in rare isotopes”, 2010 (Faculty, University of Hong Kong)

Rachel Hodges, “Determination of Density and Momentum Dependence of Nuclear Symmetry Potentials with Asymmetric Heavy Ion Reactions”, January, 2015 (Algorithm Engineer, Auto Industry)

Jack Winkelbauer, “Precision Measurement of Isospin Diffusion in Peripheral Sn+Sn Collisions at 70 MeV/u”, August, 2015, (staff, LANL)

Juan Manfredi, “Asymmetry Dependence of Spectroscopic Factors: A Study of Transfer Reactions on Argon Isotopes at 70 MeV/u”, July 2018, (Postdoc, LBL)

Kuan Zhu, 2019

Chun Yuen Tsang, 2020

En-Chi Teh, 2021

### **UNDERGRADUATE STUDENTS SUPERVISED in REU/SURE or Professorial Assistants programs**

Loretta Weathers (1995), Alfredo Armanda (1995), Sharon Seun (1999), Dina Zhabinskiy (2000), Alex Chik (2001), Diana Seymour (2002), Chefung Chan (2002), Lau Kwok Kwong (2003), Micha Kilburn (2003), Hiu Ching Lee (2004), Rebecca Habas (2005), Lexis Knaub (2005), Glan Perry (2006), Michael Saelim (2006), Shi-Chun Su (2006), Phoenix Dai (2007), Hoi Kit Cheung (2008), Dan Stoken (2009), Chakfai Chan (2011), Ka Pang Chan (2012), David Witaka (2013), Chun Yuen Tsang (2014), Hananiel Setiawan (2013-2016), JiaShen Tang (2016), Suhas Kodalis (2016-17), Victoria Kuhn (2017), Corinne Anderson (2012-2018), Jacob Crosby (2016-19), Ding Fang (2017, Xian Jiaotong University exchange student), Mira Ghazali (2018-), Christian Zawisza (2018), Zac Benzerara (2018 REU), Marshall Basson (2018 REU),

**PUBLICATION IN REFEREED SCIENTIFIC JOURNALS**

302. [Scaling properties of light-cluster production](#), Z. Chajecki, M. Youngs, D.D.S. Coupland, W.G. Lynch, M.B. Tsang, D. Brown, A. Chbihi, P. Danielewicz, R.T. DeSouza, M.A. Famiano, T.K. Ghosh, B. Giacherio, V. Henzl, D. Henzlova, C. Herlitzius, S. Hudan, M. A. Kilburn, Jenny Lee, F. Lu, S. Lukyanov, A.M. Rogers, P. Russotto, A. Sanetullaev, R. H. Showalter, L.G. Sobotka, Z.Y. Sun, A.M. Vander Molen, G. Verde, M.S. Wallace, and J. Winkelbauer, arXiv: 1402.5216
301. [The Nuclear Symmetry Energy at Sub-saturation Densities](#), W.G. Lynch and M.B. Tsang, arXiv: 1805.10757
300. Calibration of large neutron detection arrays using cosmic rays, K. Zhu, M.B. Tsang, D. Dell'Aquila, K.W. Brown, Z. Chajecki, W.G. Lynch, S. Sweany, F.C.E. The, C.Y. Tsang, C. Anderson, A. Anthony, J. Barney, J. Crosby, J. Estee, I. Gasparic, G. Jhang, S. Kodali, J. Manfredi, and C.Y. Niu, submitted for publication.
299. [Constraining the symmetry energy with heavy-ion collisions and Bayesian analysis](#), P. Morfouace, Y. Zhang, W.G. Lynch, M.B. Tsang, D.D.S. Coupland, M. Youngs, Z. Chajecki, M.A. Famiano, G. Jhang, Jenny Lee, H. Liu, A. Sanetullaev, R.H. Showalter, J. Winkelbauer, submitted for publication, arXiv: 1904.12471.
298. Invariant-mass spectroscopy of  $^{14}\text{O}$  excited states, R.J. Charity, K.W. Brown, J. Okolowicz, M. Ploszajczak, J.M. Elson, W. Reviol, L.G. Sobotka, W.W. Buhro, Z. Chajecki, W.G. Lynch, J. Manfredi, R. Shane, R.H. Showalter, M.B. Tsang, D. Weisshaar, J.R. Winkelbauer, S. Bedoor, and A.H. Wuosmaa, submitted for publication.
297. Constraints on Skyrme Equations of State from Doubly Magic Nuclei, Ab-Initio Calculations of Low-Density Neutron Matter, and Neutron Stars, C. Y. Tsang, B. A. Brown, F.J. Fattoyev, W. G. Lynch, and M. B. Tsang, submitted for publication.
296. [Comparison of heavy-ion transport simulations: Collision integral with pions and  \$\Delta\$  resonances in a box](#), A. Ono, J. Xu, M. Colonna, P. Danielewicz, C.M. Ko, M.B. Tsang, Y.J. Wang, H. Wolter, Y.X. Zhang, L.W. Chen, D. Cozma, H. Elfner, Z.Q. Feng, N. Ikeno, B.A. Li, S. Mallik, Y. Nara, T. Ogawa, A. Ohnishi, D. Oliinychenko, J. Su, T. Song, F.S. Zhang, and Z. Zhang, in press arXiv: 1904.02888
295. Extending the Dynamic Range of Electronics in a Time Projection Chamber, J. Estee, W.G. Lynch, J. Barney, G. Cerizza, G. Jhang, J. W. Lee, R. Wang, T. Isobe, M. Kaneko, M. Kurata-Nishimura, T. Murakami, R. Shane, S. Tangwancharoen, C. Y. Tsang, M.B. Tsang, B. Hong, P. Lasko, J. Łukasik, A.B. McIntosh, P. Pawłowski, K. Pelczar, C. Santamaria, D. Suzuki, S.J. Yennello, Y. Zhang, and the  $S\pi$ RIT collaboration, Nuclear Instruments and Methods in Physics Research A 944 (2019) 162509. <https://doi.org/10.1016/j.nima.2019.162509>

294. [Particle decays of levels in  \$^{11,12}\text{N}\$  and  \$^{12}\text{O}\$  investigated with the invariant-mass method](#), T.B. Webb, R.J. Charity, J.M. Elson, D.E.M. Hoff, C.D. Pruitt, L.G. Sobotka, K.W. Brown, J. Barney, G. Cerizza, J. Estee, G. Jhang, W.G. Lynch, J. Manfredi, P. Morfouace, C. Santamaria, S. Sweany, M.B. Tsang, T. Tsang, S.M. Wang, Y. Zhang, K. Zhu, S.A. Kuvin, D. McNeel, J. Smith, A.H. Wuosmaa, and Z. Chajecski, Phys. Rev. C 100 (2019) 024306. arXiv: 1906.11347.  
DOI: 10.1103/PhysRevC.100.024306
293. [Symmetry Energy Constraints from GW170817 and Laboratory Experiments](#), M.B. Tsang, P. Danielewicz, W.G. Lynch, C.Y. Tsang, Phys. Lett. B 795, 533 (2019).  
<https://doi.org/10.1016/j.physletb.2019.06.059>
292. [Insights on Skyrme parameters from GW170817](#), C.Y. Tsang, M.B. Tsang, P. Danielewicz, and W.G. Lynch, F.J. Fattoyev, Phys. Lett. B (2019) 796, 10 (2019).  
<https://doi.org/10.1016/j.physletb.2019.05.055>
291. [Invariant-mass spectroscopy of Ne-18, O-16, and C-10 excited states formed in neutron-transfer reactions](#), R.J. Charity, K.W. Brown, J. Elson, W. Reviol, L.G. Sobotka, W.W. Buhro, Z. Chajecski, W.G. Lynch, J. Manfredi, R. Shane, R.H. Showalter, M.B. Tsang, D. Weisshaar, J. Winkelbauer, S. Bedoor, D.G. McNeel, A.H. Wuosmaa, Phys. Rev. C 99, 044304 (2019) doi: <https://doi.org/10.1103/PhysRevC.99.044304>
290. [First Observation of Unbound O-11, the Mirror of the Halo Nucleus Li-11](#), T.B. Webb, S.M. Wang, K.W. Brown, R.J. Charity, J.M. Elson, J. Barney, G. Cerizza, Z. Chajecski, J. Estee, D.E.M. Hoff, S.A. Kuvin, W.G. Lynch, J. Manfredi, D. McNeel, P. Morfouace, W. Nazarewicz, C.D. Pruitt, C. Santamaria, J. Smith, L.G. Sobotka, S. Sweany, C.Y. Tsang, M.B. Tsang, A.H. Wuosmaa, Y. Zhang, Z. Zhu Phys. Rev. Lett. 122, 122501 (2019) doi: <https://doi.org/10.1103/PhysRevLett.122.122501>
289. [Non-linearity effects on the light-output calibration of light charged particles in CsI\(Tl\) scintillator crystals](#), D. Dell'Aquila, S. Sweany, K.W. Brown, Z. Chajecski, W.G. Lynch, F.C.E. Teh, C.-Y. Tsang, M.B. Tsang, K. Zhu, C. Anderson, A. Anthony, S. Barlini, J. Barney, A. Camaiani, G. Jhang, J. Crosby, J. Estee, M. Ghazali, F. Guan, O. Khanal, S. Kodali, I. Lombardo, J. Manfredi, L. Morelli, P. Morfouace, C. Niu, G. Verde, Nuclear Instruments and Methods in Physics Research A 929 (2019) p.162-172. doi: <https://doi.org/10.1016/j.nima.2019.03.065>
288. [Application of the Generic Electronics for Time Projection Chamber \(GET\) readout system for heavy Radioactive isotope collision experiments](#), T. Isobe, G. Jhang, H. Baba, J. Barney, P. Baron, G. Cerizza, J. Estee, M. Kaneko, M. Kurata-Nishimura, J.W. Lee, W.G. Lynch, T. Murakami, N. Nakatsuka, E.C. Pollacco, W. Powell, H. Sakurai, C. Santamaria, D. Suzuki, S. Tangwancharoen, M.B. Tsang, Nuclear Instruments and Methods in Physics Research A 899 (2018) p.43-48.  
doi: <http://doi.org/10.1016/j.nima.2018.05.022>



287. [Comparison of heavy-ion transport simulations: Collision integral in a box](#): Ying-Xun Zhang, Yong-Jia Wang, Maria Colonna, Pawel Danielewicz, Akira Ono, Manyee Betty Tsang, Hermann Wolter, Jun Xu, Lie-Wen Chen, Dan Cozma, Zhao-Qing Feng, Subal Das Gupta, Natsumi Ikeno, Che-Ming Ko, Bao-An Li, Qing-Feng Li, Zhu-Xia Li, Swagata Mallik, Yasushi Nara, Tatsuhiko Ogawa, Akira Ohnishi, Dmytro Oliinychenko, Massimo Papa, Hannah Petersen, Jun Su, Taesoo Song, Janus Weil, Ning Wang, Feng-Shou Zhang, and Zhen Zhang, Phys. Rev. C 97, 034625 (2018), doi: <https://doi.org/10.1103/PhysRevC.97.034625>
286. [Dynamical and many-body correlation effects in the kinetic energy spectra of isotopes produced in nuclear multifragmentation](#): S. R. Souza, R. Donangelo, W. G. Lynch, and M. B. Tsang, Phys. Rev. C 97, 034614 (2018) doi: <https://doi.org/10.1103/PhysRevC.97.034614>
285. [On determining dead layer and detector thicknesses for a position-sensitive silicon detector](#): J. Manfredi, Jenny Lee, W.G. Lynch, C.Y. Niu, M.B. Tsang, C. Anderson, J. Barney, K.W. Brown, Z. Chajecski, K.P. Chan, G. Chen, J. Estee, Z. Li, C. Pruitt, A.M. Rogers, A. Sanetullaev, H. Setiawan, R. Showalter, C.Y. Tsang, J.R. Winkelbauer, Z. Xiao, Z. Xu, Nuclear Instruments and Methods in Physics Research A 888, p. 177-183 (2018), doi: <https://doi.org/10.1016/j.nima.2017.12.082>
284. [Three-dimensional electric field calculations for wire chamber using element refinement method in ANSYS](#), Y.-F. Zhang, J. Barney, M.B. Tsang, C.-L. Zhang, Nucl. Sci. Tech. 29 (2018) p.182. doi: <https://doi.org/10.1007/s41365-018-0519-5>
283. [Spin alignment following inelastic scattering of Ne-17, lifetime of F-16, and its constraint on the continuum coupling strength](#), R.J. Charity, K.W. Brown, J. Okolowicz, M. Ploszajczk, J.M. Elson, W. Reviol, L.G. Sobotka, W.W. Buhro, Z. Chajecski, W.G. Lynch, J. Manfredi, R. Shane, R.H. Showalter, M.B. Tsang, D. Weisshaar, J.R. Winkelbauer, S. Bedoor, A.H. Wuosmaa, Phys. Rev. C. 97, 054318 (2018). doi: <https://doi.org/10.1103/PhysRevC.97.054318>
282. [Many-particle correlations and Coulomb effects on temperatures from fragment momentum fluctuations](#), S.R. Souza, M.B. Tsang, R. Donangelo, Phys. Rev. C 96, 014616 (2017), doi: <https://doi.org/10.1103/PhysRevC.96.014616>
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**INVITED TALKS**

1. Enhanced Emission of Non-Compound Light Particles in the Reaction Plane; Workshop on Nuclear Dynamics III, Copper Mountain, CO. March 5-9, 1984.
2. Deflection of Non-Equilibrium Light Particles by the Nuclear Mean Field; Workshop on Nuclear Dynamics IV, Copper Mountain, CO. February 24-28, 1986.
3. Deflection of Non-equilibrium Light Particles by the Nuclear Mean Field; Symposium on The Many Facets of Heavy-Ion Fusion Reactions, Argonne, IL. March 24-26, 1986.
4. Deflection of Non-Equilibrium Light Particles by the Nuclear Mean Field; International Conference on Heavy Ion Nuclear Collisions in the Fermi Energy Domain, Caen, France May 12-16, 1986.
5. Mean Field Dynamics for Non-Equilibrium Particles Emission; American Chemical Society Meeting, Denver, CO. April 6-9, 1987
6. Collisional Dynamics in Heavy Ion Reactions; American Physical Society Nuclear Physics Division Meeting, New Brunswick, NJ. Oct 14-17, 1987.
7. Azimuthal Distributions for  $^{36}\text{Ar} + ^{196}\text{Au}$  Reactions at  $E/A = 35$  MeV; Workshop on Nuclear Dynamics IV, Key West, Fl. February 16-23, 1991.
8. Impact Parameter Dependence of Experimental Observables for  $^{36}\text{Ar} + ^{196}\text{Au}$  Reactions at  $E/A = 35$  MeV; XXX International Winter Nuclear Conference, Bormio, Italy, Jan 27-31, 1992.
9. MiniBall Results; Aladin Collaboration, 1001 days, GSI, Darmstadt, Germany, May 18-20, 1992
10. Multifragmentation in Central Collisions; XXXI International Winter Nuclear Conference, Bormio, Italy, Jan 25-29, 1993.
11. Multifragmentation with MSU miniball; 9th High-Energy Heavy-Ion Study, Lawrence Berkeley Laboratory, Berkeley, CA, Oct 25-29, 1993
12. Onset and Decline of Multifragmentation in Central Collisions; Gross Properties of Nuclei and Nuclear Excitation, International Workshop XXII, Hirschegg, Kleinwalsertal, Austria, Jan 17-22, 1994
13. Multifragmentation Processes for Kr+Au and Au+Au systems from  $E/A=35$  to 400 MeV; XXXII International Winter Nuclear Conference, Bormio, Italy, Jan 24-30, 1994.

14. Multifragmentation and Nuclear Vaporizations for Kr+Au and Au+Au systems; Nuclear Chemistry Gordon Conference, New London, NH, Jun 19-24, 1994
15. Nuclear Temperature Measurements; Workshop on Phase Transitions in Small Systems, GSI, Darmstadt, Germany, Dec 7-9, 1995.
16. Activities of the Committee on the International Freedom of Scientists of the American Physical Society; The intersection of Science and Human Rights, AAAS Science and Human Rights, Washington DC, March 22, 1996.
17. Probing low density nuclear matter, CRIS '96, First Catania Relativistic Ion Studies, Critical Phenomena and Collective Observables, Acicastello, Italy, May 27-31, 1996.
18. Systematics of isotope temperatures; Nuclear Chemistry Gordon Conference, New London, NH, Jun 16-21, 1996.
19. Nuclear Temperature Measurements with Helium Isotopes; XXXIV International Winter Nuclear Conference, Bormio, Italy, Feb 3-7, 1997.
20. Multifragmentation in Heavy Ion Reactions; Second Joint Meeting of the Chinese Physical Societies, Taipei, Taiwan, Aug. 11-15, 1997.
21. Multifragmentation in Central nucleus-nucleus Collisions; International Nuclear Physics Conference, Paris, France, Aug 24-28, 1998.
22. Cooling Phenomena and Nuclear Multifragmentation; PT98, Copenhagen, Nov. 1998.
23. Determining the EOS of neutron-rich matter, Astrophysics Town Meeting, Notre Dame, USA, June 6, 1999.
24. Isospin Effects in Multifragmentation, International workshop on Nuclear Reaction and Beyond, Lanzhou, China, Aug. 24-27, 1999.
25. Isospin Fractionation in Multifragmentation, Indra Workshop, GANIL, Mar. 8-10, 2000
26. Nuclear Science Experiments with a High-Resolution charged Particle Detection Array, 219<sup>th</sup> American Chemical Society Meeting, San Francisco, CA, March 26-30, 2000
27. Scaling behavior of isotopes produced in Nuclear Reactions, 3rd Catania Relativistic Ion Studies Phase Transitions in Strong Interactions: Status and Perspectives Acicastello, Italy, May 22-26, 2000

28. Isospin Fractionation in Multifragmentation, Nuclear Chemistry Gordon Conference, New London, NH, Jun 18-23, 2000.
29. The New Radioactive Beam Facility at the National Superconducting Laboratory, Michigan State University, International Conference on the Role of Physics in the New Millenium: Research, Education & Society, Hong Kong, July 31 - Aug 4, 2000.
30. Isospin Dependence of the Equation of State, RIA working Group Durham, NC July 24-26, 2000.
31. Isospin Dependence of the Equation of State, Long Range Plan for Nuclear Science Town Meeting, Nuclear Structure and Astrophysics working group, Oakland, CA, Nov. 9-12, 2000
32. Exploring the Isospin Dependence of the Equation of State in Heavy Ion Reactions, Critical Issues/Questions in Nuclear Dynamics at the 221st ACS National Meeting, San Diego, CA, April 1 – 5, 2001.
33. Isoscaling in Nuclear Reactions, contributed talk to International Nuclear Physics Conference, 30 July - 3 August 2001, Berkeley, CA.
34. Isoscaling in Nuclear Reactions, IV Latin American Symposium on Nuclear Physics, September 24 - 28, 2001, Colegio Nacional, Mexico D.F.
35. Exploring the Symmetry Energy in the Equation of State, Yukawa International Seminar 2001, November 5-10, 2001, Kyoto, Japan.
37. Isospin Mixing and Isospin Diffusion, 224th ACS National Meeting, August 18-22, 2002, Boston, MA, USA
38. Determining the asymmetry terms in the Equation of State, The International Symposium on Physics of Unstable Nuclei, November 20 – 25, Halong Bay, Vietnam.
39. Isospin Diffusion in Heavy Ion Reactions, VIII International Conference on Nucleus-Nucleus Collisions, 17 – 21 June, 2003, Moscow, Russia.
40. Fragmentation measurements at NSCL, NSCL user workshop, Sept 27-28, 2003, E. Lansing, MI
41. Isospin Mixing and Isospin Diffusion, Clustering Aspects of Nuclear Structure and Dynamics, November 24-29, 2003, Nara, Japan.

42. Dynamics and Thermodynamics with Nucleonic Degree of Freedom, First World Congress Initiative workshop, LNS Catania Jan.19-24 2004.
43. Isoscaling in Nuclear Reactions, Nuclear Chemistry Gordon Conference, New London, NH, Jun 13-18, 2004.
44. Comparison of statistical models for fragment production, Post Gordon Conference workshop WCI 2004, South Hampton, NH, Feb 18-19, 2004.
45. Isoscaling in Statistical Models, Subal Das Gupta Festschrift, December 4, 2004, McGill University, Montreal, Canada.
46. Comparisons of Statistical models, World Concensus Initiative III, College Station, Feb 12-16, 2005.
47. Survey of neutron spectroscopic factors from Li to Cr isotopes. INFN workshop on Reactions and Structure with Exotic Nuclei, Pisa, Italy, Feb 24-26, 2005.
48. Constraining neutron star matter with laboratory experiments, American Physical Society Spring Meeting, Tempa, Florida, April 16-20, 2005.
49. RIA Development and its Physics, International Collaboration for High Energy Nuclear Physics and China's Opportunity, Shanghai, China, June 28-29, 2005
50. Isospin physics with heavy ions at NSCL, "Hadron Physics and Detector Needs for the Lanzhou Cooling Storage Ring", Lanzhou, China, July 1-5, 2005.
51. Nuclear Equation of State for asymmetric matter, *JINA* Workshop on Nuclear Incompressibility, University of Notre Dame, July 14-15, 2005.
52. Projectile Fragmentation of Ca and Ni Isotopes, Sixth Latin American Symposium on Nuclear Physics and Applications, Iguazu, Argentina, Oct 3 - 7, 2005.
53. Probing density dependence of symmetry energy with heavy ion, International Workshop on Multifragmentation and Related Topics, Catania, Italy, Nov 28-Dec 1, 2005.
54. Extracting spectroscopic factors from 40 years of (p,d) and (d,p) data, US Nuclear Data Program Annual Meeting, Nov 7-9, 2006.
55. Fragmentation measurements at NSCL, ACS Fall Meeting, Sept 10-11, 2006, San Francisco, USA
56. Transfer Reactions with rare isotopes, Workshop on weakly bound nuclei, Niterói, Brazil, August 25, 2006

57. Neutron Spectroscopic Factors from Transfer Reactions, Jenny Lee, International Symposium on Exotic Nuclei "EXON - 2006", 07/17/06 - 07/24/06 Khanty-Mansiysk
58. Radioactive Beam Facilities in Asia, Nuclear Chemistry Gordon Conference, New London, NH, Jun 4-9, 2006.
59. Reaction Experiments in Riken, International Workshop on "Nuclear Physics with RIBF", March 13-17, 2006, Riken, Waitama, Japan.
57. Neutron Spectroscopic Factors from Transfer Reactions, Jenny Lee, Gordon Research Conference, June 3-8, 2007, New London, NH.
60. Nuclear Reactions Programs at NSCL, The International Symposium on Physics of Unstable Nuclei, July 3-7, 2007, Hoi An, Vietnam.
61. Probing the asymmetry terms in the Equation of State, International workshop on nuclear dynamics in heavy-ion reactions and neutron stars July 10-14, 2007, Beijing, China.
62. Fragmentation of Unstable Beams, symposium on "Nuclear Structure and Reactions in the Era of Radioactive Beams", American Chemical Society Meeting, August 19-23, 2007, Boston, USA.
64. Isospin Dynamics in Heavy Ion Reactions, American Chemical Society National Meeting, April 6-11, 2008, New Orleans, USA.
65. Isospin Diffusion Experiment at Catania, Workshop on Nuclear Symmetry Energy at Medium Energies, May 29-30, 2008, Catania, Italy.
66. Extracting subnormal density dependence of Symmetry Energy in HI collisions, Lead Radius Experiment (PREX) Workshop and Neutron Rich Matter in the Heavens and on Earth, August 17-19, 2008, Thomas Jefferson National Accelerator Facility, Newport News, VA, USA.
70. Constraints on the density dependence of symmetry energy in heavy ion reactions, 5<sup>th</sup> ANL/MSU/JINA/INT FRIB workshop on Bulk Nuclear Properties, November 19-22, 2008, East Lansing, MI, USA.
71. Neutron Spectroscopic Factors from transfer reactions, Kerz08, December 1-5, 2008, Queenstown, New Zealand.
72. Learning about the equation of state of asymmetric nuclear matter with heavy-ion collisions, RIBF Mini-workshop on Nuclear Collisions and Nuclear Matter, December 16-17, 2008, RIKEN, Wako, Japan.

73. Neutron spectroscopic factors of  $^{34}\text{Ar}$  and  $^{46}\text{Ar}$  from transfer reactions, 237th ACS National Meeting, March 22-26, 2009, Salt Lake City, UT, USA.
74. Wish List for Theoreticians, International Workshop on "Simulations of Low and Intermediate Energy Heavy Ion Collisions", May 11-15, 2009, Trento, Italy
75. Learning about the equation of state of asymmetric nuclear matter with heavy-ion collisions, Defining the neutron star crust: x-ray bursts, superbursts and giant flares, May 18-21, 2009, Santa Fe, NM, USA.
76. Determining the density dependence of symmetry energy in heavy ion reactions, The 10<sup>th</sup> International Conference on Nucleus-Nucleus collisions, August 16-21, 2009, Beijing, China
77. Determining the density dependence of symmetry energy in heavy ion reactions, the second International Conference on Nuclear Fragmentation: From Basic Research to Applications (NUFRA2009), 27 September - 4 October 2009, Kemer, Turkey.
78. Determining the density dependence of symmetry energy at subsaturation density, Fifth International Workshop on Multifragmentation and Related Topics (IWM2009) November 4th - 7th, 2009, Catania, Italy.
79. Isotope Physics with Raciti's hodoscope, Giovanni Raciti International Memorial Workshop, Feb 1, 2010, Catania, Italy.
80. Probing the symmetry energy with heavy ions, Glenn T. Seaborg Award for Nuclear Chemistry: Symposium in Honor of Lee G. Sobotka, 239<sup>th</sup> ACS National Meeting, March 21-25, 2010, San Francisco, USA.
81. Asymmetry Dependence of neutron spectroscopic factors in Ca and Ar isotopes, International Workshop on "Reactions and Nucleon Properties in Rare Isotopes" April 6-10, 2010, Trento, Italy.
82. Neutron Spectroscopic Factors, International School of Physics "Enrico Fermi" Course CLXXVIII - "From the Big Bang to the nucleosynthesis", July 19 - 24, 2010, Varenna, Italy.
83. Probing the symmetry energy with heavy ions, Erice School/Workshop 2010 on "Particle and Nuclear Astrophysics", September 16-24, 2010, Erice, Italy.
84. Overview of the SAMURAI-TPC project, SAMURAI/TPC collaboration meeting, July 29, 2010, RIKEN, Wakoshi, Japan.
85. Neutron Spectroscopic Factors, Annual Department of Atomic Energy Nuclear Physics Symposium, December 20-24, 2010, Pilani, India.

86. Physics with MSU High Resolution Array, Nucleus-Nucleus Collision around Fermi Energies (NNCAFE-2010), Dec 16-17, 2010, VECC, Kolkata, India.
87. Probing the symmetry energy with heavy ions, Francis P. Garvin-John M. Olin Symposium in Honor of Sherry Yennello to be held at the 241<sup>st</sup> National Meeting of the ACS March 27-31, 2011, Anaheim California, USA.
88. Status of FRIB and its Physics, Seventh joint meeting of Chinese Physicists Worldwide (OCPA7) Conference, August 1-5, 2011, Kaohsiung, Taiwan.
89. Overview of the US SAMURAI/TPC project, SAMURAI/TPC collaboration meeting, June 20, 2011, Simth College, North Hampton, NH, USA.
90. Status of Symmetry Energy Project, ISPUN11, International Symposium on Physics of Unstable Nuclei, November 23-28, 2011, Hanoi, Vietnam.
91. An experimental overview of the symmetry energy around nuclear matter density, WCU-APCTP Focus, 2012, April 9-18, 2012, Pohang, S. Korea.
92. Experimental Observables to study the nuclear matter symmetry energy with Heavy Ion Collisions, Heavy Ion Meeting, 2012-2014, April 13, 2012, Pohang, S. Korea.
93. An experimental overview of the equation of state of nuclear matter, RIB Physics Workshop at Peking University, April 19-20, 2012, Beijing, China.
94. Overview of the density dependence of the Nuclear Symmetry Energy, 11<sup>th</sup> International Conference on Nucleus-Nucleus collisions, May 27-June 1, 2012, San Antonio, Texas, USA.
95. Current Status and Future Direction on Symmetry Energy Determination using HIC: Neutron stars and dense matter working group, Nuclear Astrophysics Town Meeting 2012, October 9-10, 2012 in Detroit, Michigan, USA
96. Overview of the experimental constraints on Nuclear Symmetry Energy, Heavy Ion Accelerator Symposium, April 8-12, 2013, Canberra, Australia.
97. Probing the symmetry energy of neutron-rich matter, International Workshop on Nuclear Dynamics and Thermodynamics, August 19-20, 2013, College Station, TX, USA.
98. Introduction to the Equation of State Working Group, Low Energy Community Meeting, August 23-24, 2013, East Lansing, MI, USA.
99. Overview of the density dependence of the Nuclear Symmetry Energy, ACS Symposium on Nuclear Reactions, September 8-9, 2013, Indianapolis, IN, USA.



100. Neutron spectroscopic factors of  $N=27$  hole-states from (p,d) transfer reactions, "From nuclear structure to particle-transfer reactions and back" November 4-7, 2013, Trento, Italy.
101. Isospin Diffusion, IX Workshop on Particle Correlations and Femtoscopy, November 5-8, 2013, Acireale, Sicily, Italy
102. A wayforward for Transport codes – view points from an experimentalist, "International Workshop on Simulations of Low and Intermediate Energy Heavy Ion Collisions", Jan 8-12, 2014, Shanghai, China.
103. Probing symmetry energy at high density, "CEE Pre-collaboration Workshop", March 13-14, 2014, Lanzhou, China
104. Interactions in sd+pf orbits: Deep hole-states in  $N=27$  isotopes, "Direct Reactions with Exotic Beams 2014, DREB2014", July 1-5, 2014, Darmstadt, Germany.
105. Probing symmetry energy with Heavy Ion Collisions, "From Parity Violation to Hadron Structure", July 14-18, 2014, Skanestele, NY, USA,
106. Probing symmetry energy on earth, "the 4th International Workshop on Nuclear Dynamics in heavy-ion reactions (IWND2014)" August 15-19, 2014, Lanzhou, China
107. Nature of Dilute and Dense Nuclear Matter and Equation of State, Working Group Summary session; "Low Energy Town Meeting, August 21-23, 2014, College Station, TX, USA.
108. Science of the SpRIT Time Projection Chamber, From Earth to Heavens: Femto-scale nuclei to Astrophysical objects, "SAMURAI International Collaboration Meeting", September 7-10, 2014, Sendai, Japan
109.  $S\pi$ RIT: SAMURAI pion Reconstruction Ion Tracker Time Projection Chamber, Joint FRIB-RIBF user Meeting, October 9, 2014, Kona, Hawaii, USA.
110. Probing symmetry energy on earth, "The International Symposium on Physics of Unstable Nuclei 2014", November 3-8, 2014, Ho Chi Minh City, Vietnam.
111. NN correlations in shell structure and nuclear dynamics, "INT Workshop on Reactions and Structure of Exotic Nuclei" March 2 – March 13, 2015, Seattle, WA, USA.
112. Report by the Working Group on Central Nuclear Reactions/EOS, "The First FRIB-China Workshop on Physics of Nuclei and Hadrons", May 28-30, 2015 East Lansing, MI, USA.

113. New Instrumentation for the Equation of State Study at present and future facilities, “The 12<sup>th</sup> International Conference on Nucleus Nucleus collisions (NN2015)”, June 21-26, 2015, Catania, Italy,
114. Nuclear Symmetry Energy – from nucleus to neutron stars, “5<sup>th</sup> International Symposium on Nuclear Symmetry Energy” NuSYM15, June 29 – July 2, 2015, Krakow, Poland.
115. Nuclear Symmetry Energy – from nucleus to neutron stars, “The 9<sup>th</sup> Japan-China Joint Nuclear Physics Symposium” JCN2015, Nov 7 – Nov 12, 2015, Osaka University, Japan.
116. Scaling Properties of Clusters in Heavy Ion Collisions, “SINAP-CUSTIPEN Workshop on Cluster and Correlations in Nuclei”, Dec 13-16 2015, Shanghai, China.
117. Information on NSCL facility and PAC40, “SINAP-CUSTIPEN Workshop on Cluster and Correlations in Nuclei”, Dec 13-16 2015, Shanghai, China.
118. Observables from transport simulations to probe the symmetry energy at high density I : Simulations of Pion Productions with pBUU, “6<sup>th</sup> International Symposium on Nuclear Symmetry Energy” NuSYM16, June 13 – 17, 2016, Tsinghua University, China.
119. Comparison to Experiments : “Code Comparison Workshop II” June 18, 2016, Beijing Normal University, China.
120. Symmetry Energy at Supranormal Density, Workshop on "Laboratory and astronomical observations of dense matter", Week 2 at “INT 16-2b: the Phases of Dense Matter” July 18 – 22, 2016, Seattle, WA, USA.
121. Observables from transport simulations for SpiRIT experiments, “SpiRIT collaboration meeting”, Aug 8, 2016, East Lansing, MI, USA
122. DAQ and Analysis needs for SpiRIT experiments: Implications for FRIB needs in 5 years, “Low Energy Community Meeting Satellite workshop on Data Acquisition”, Aug. 11, 2016, South Bend, IN, USA
123. The Symmetry Energy Project, “XXIII Nuclear Physics Workshop”, September 27 – October 2, 2016, Kazimierz Dolny, Poland.
124. Experimentalists’ Wish Lists, Custipen Mini-Workshop on Nuclear Reactions, Nov. 16, 2016, Commerce, Texas.
125. CUSTIPEN-IMP-PKU Workshop on Physics of Exotic Nuclei, Dec 12 – 16, 2016, Huizhou, Guangdong, China

126. “Transport Model Comparison Project”, Transport 2017: International Workshop on Transport Simulations for Heavy Ion Collisions under Controlled Conditions, March 27 – March 31, 2017, East Lansing, MI, USA.
127. “Nuclear Equation of State for asymmetric nuclear matter at low density”, 7<sup>th</sup> International Symposium on Nuclear Symmetry Energy, NuSYM17, September 4-7, 2017, GANIL, France.
128. “*Memories of human rights work with Joe*” Symposium in memory of Joseph L. Birman, Oct 9, 2017, New York City, USA
129. “Nuclear Symmetry Energy: From Nucleus to Neutron Stars” FRIB/China working group, Oct 16-17, 2017, Beijing, China
130. “Nuclear/Astrophysics research and opportunities with MSU/FRIB FROM NEUTRON STAR MERGER TO NUCLEUS-NUCLEUS COLLISIONS” National Society of Black Physicists meeting, Atlanta, GA, Nov 4, 2017
131. “Highlights of SpRIT TPC – designed to investigate physics from neutron-star merger to nucleus-nucleus collisions” AT-TPC Workshop, January 17-19, 2018, Santiago de Compostella, Spain.
132. “Laboratory Probes of the Neutron-Matter Equation of State” First multi-messenger observations of a neutron star merge, and its implications for nuclear physics, INT-JINA Symposium, March 12 - 14, 2018, Seattle Washington.
133. “Laboratory Probes of the Neutron-Matter Equation of State” International Symposium on Heavy Ion collisions, April 8-11, 2018, Beijing, China
134. “Laboratory Probes of the Neutron-Matter Equation of State” Conference on the Intersections of Particle and Nuclear Physics, May 28 - June 3, 2018, Palm Springs, USA
135. “Tidal deformation of the Neutron Star” Transport Code Evaluation Project writing group meeting, June 7-8, 2018, Zhuhai, China
136. “Comparison of symmetry energy constraints from neutron star merger and heavy ion collisions” 8<sup>th</sup> International Symposium on Nuclear Symmetry Energy, NuSYM18, October 11-14, 2018, Busan, S. Korea.
137. “Heavy ion collision experiments in the era of neutron star merger” 42<sup>nd</sup> Symposium on Nuclear Physics, January 7-10, 2019, Cocoyoc, Mexico.
138. “Heavy ion collision experiments in the era of neutron star merger” CUSTIPEN Workshop on the DOS of Dense Neutron-Rich Matter in the Era of Gravitational Wave Astronomy, January 3-7, 2019, Xiamen, China.

139. “Asymmetric Matter under Extreme Conditions” 2019 Stewardship Science Academic Programs (SSAP) Symposium, Feb 19-20, Albuquerque, NM, USA.
140. “Extracting Symmetry Energy from neutron star merger and heavy ion collisions” Weak Elastic Scattering with Nuclei, March 4-8, 2019, Seattle, Washington, USA.

**SEMINARS & Colloquium**

1. Texas A&M University, College Station, Texas, USA (1980)
2. Michigan State University, East Lansing, Michigan, USA (1981)
3. Max Planck Institute, Heidelberg, W. Germany (1982)
4. University of Munich, Munich, W. Germany (1982)
5. Brookhaven National Lab, Upton, New York, USA (1984)
6. State University of New York at Stony Brook, New York, USA (1984)
7. Bell Laboratory, Murray Hill, New Jersey, USA, (1984)
8. GANIL, Caen, France (1986)
9. Service de Physique Nucleaire-Basse Energie, CEN Saclay, France (1986)
10. GSI, Darmstadt, W. Germany (1986)
11. Nuclear Physics Laboratory, Seattle, Washington (1986)
12. Society for Advancement of Science, Hong Kong (1986)
13. Lawrence Berkeley Laboratory, Berkeley, California (1990)
14. Lawrence Livermore Laboratory, Livermore, California (1990)
15. GSI, Darmstadt, W. Germany (1992)
16. Saginaw Valley State University, Saginaw, MI (1993)
17. McGill University, Montreal, Canada (1993)
18. Chalk River National Laboratory, Chalk River, Canada (1993)
19. University of Catania, Italy (1994).
20. Michigan State University, E. Lansing, MI (1994)
21. Michigan State University, E. Lansing, MI (1994)
22. Michigan State University, E. Lansing, MI (1996)

23. Indiana University, Bloomington, IN (1996)
24. Shanghai Institute of Nuclear Research, Chinese Academy of Sciences, Shanghai, China (1997)
25. Beijing University, Beijing, China (1997)
26. Institute of Modern Physics, Lanzhou, China (1997)
27. Academy of Atomic Energy, Beijing, China (1997)
28. Five College Colloquium, Smith College, NH (1998)
29. Amherst College, MA (1998)
30. Shanghai Institute of Nuclear Research, Chinese Academy of Sciences, Shanghai, China (1999)
31. GSI, Germany (2000)
32. Physics Department, Arkansas State University, AK, USA (2001).
33. Physics Department, Chinese University of Hong Kong, Hong Kong (2001).
34. McGill University, Montreal, Canada (2002)
35. Tohoku University, Sendai, Japan (2002).
36. GSI, Germany (2003).
37. Institute of Nuclear and Hadron Physics, Forschungszentrum Rossendorf, Germany. (2003).
38. Tohoku University, Sendai, Japan (2004).
39. INFN, Florence, Florence, Italy (2005).
40. Peking University, Beijing, China (2005).
41. Shanghai Institute of Applied Physics, Chinese Academy of Sciences, China (2005).
42. Peking University, Beijing, China (2006)
43. China Institute of Atomic Energy, Beijing, (2006).
44. Rare Isotope Productions from Projectile Fragmentation, NSCL, (2008).

45. Neutron Spectroscopic Factors from transfer reactions, University of Aizu, Japan, (2008).
46. Neutron Spectroscopic Factors from transfer reactions, RIKEN, Japan, (2008).
47. Learning about the EoS of Asymmetric Nuclear Matter with Heavy Ion Collisions, RIKEN, Japan, (2008)..
48. Physics with MSU High Resolution Array, Inter-University Accelerator Center, Delhi, India (2011).
49. Experimental constraints on Symmetry Energy, Texas A&M University – Commerce, (2011), Commerce, TX, USA.
50. An experimental overview of the equation of state of nuclear matter, Guangxi Normal University, Guilin, China (2013).
51. Nuclear Symmetry Energy – From Nucleus to Neutron Star; Colloquium, Tsinghua University, Beijing, China (2013).
52. Overview of the experimental constraints on symmetry energy & Beyond; Colloquium, Beijing Normal University, Beijing, China (2013).
53. Frontier experiments on symmetry energy; Beijing Normal University, (2013).
54. Overview of the experimental constraints on symmetry energy & Beyond; Shanghai JiaoTung University, Shanghai, China (2013).
55. Symmetry Energy Project: To bring heavens down to earth, Korea University (2015).
56. Transport Model Comparison Project, Shanghai Institute of Applied Physics, Chinese Academy of Sciences, Shanghai, China, November 4, 2015
57. Nuclear Symmetry Energy – from nucleus to neutron stars, IPN, Krakow, Poland, Oct 3, 2016.
58. Nuclear Symmetry Energy, China Institute of Atomic Energy, Beijing, August 7, 2017.
59. Nuclear Symmetry Energy – from nucleus to neutron stars, Oak Ridge National Laboratory, Nov 15, 2017.
- 60.

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