KYUNGYUK CHAE

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EXPERIENCE

- **Associate Professor**, Department of Physics, Sungkyunkwan University — Mar. 2016 - Present
- **Guest Associate Professor**, Department of Physics, University of Notre Dame — Jan. 2018 - Present
- **Assistant Professor**, Department of Physics, Sungkyunkwan University — Mar. 2012 - Feb. 2016
- **Research Scientist**, Oak Ridge National Laboratory — Jan. 2011 - Dec. 2011
- **Postdoctoral Research Associate**, Oak Ridge National Laboratory — Sep. 2009 - Dec. 2010
- **Postdoctoral Research Associate**, University of Tennessee at Knoxville — Jan. 2007 - Aug. 2009
- **Research Assistant**, Oak Ridge National Laboratory — Aug. 2003 - Dec. 2006
- **Research Assistant**, University of Tennessee at Knoxville — Jan. 2002 - Jul. 2003
- **Military Service**, Ministry of National Defense, Republic of Korea — Jan. 1996 - Mar. 1998

EDUCATION

- **University of Tennessee at Knoxville**, TN 37996, USA — Aug. 2001 - Dec. 2006
  Ph.D. in Physics, December 2006
  Dissertation: "Interference effects among J^{π}=3/2^{+} resonances in ^{19}Ne system & Searching for resonances in the unbound ^{6}Be nucleus"
  Advisor: Prof. Michael Guidry
- **Sogang University**, Seoul, South Korea — Mar. 1994 - Feb. 2000
  B.S. in Physics (major), Mathematics (minor), February 2000

GRANTS

- **Participating Researcher**, Ministry of Science, 4,000,000,000 KRW — Jun. 2018 - Present
  "Project for International Collaboration Research of Utilizing RAON"
- **Participating Researcher**, Ministry of Science, 8,600,000,000 KRW — Jul. 2016 - Present
  "Center for High Energy Astrophysics"

- **PI**, Ministry of Science, 80,000,000 KRW — Mar. 2016 - Present
  "Study of the α-cluster structure of radionuclide ^{22}Mg"
- **PI**, LG Yonam Foundation, 40,000 USD — Jan. 2018 - Dec. 2018
  "Developing transfer reaction measurement technique using heavy ion beams"
- **PI**, Ministry of Science, 100,000,000 KRW — Jan. 2017 - Dec. 2017
  "Detailed design and commissioning of KOBRA detector systems"
- **Participating Researcher**, Ministry of Science, 25,000,000 KRW — Dec. 2016 - Sep. 2017
  "Study of identifying topics in nuclear astrophysics using KOBRA"
- **PI**, Ministry of Science, 150,000,000 KRW — Jan. 2016 - Dec. 2016
  "Designing and constructing detector systems for KOBRA"
- **PI**, Ministry of Education, 154,440,000 KRW — Nov. 2015 - Oct. 2018
  "Nuclear astrophysics study using position sensitive ionization chamber"
- **PI**, Ministry of Education, 396,000,000 KRW — Sep. 2014 - Aug. 2017
  "Study of astrophysically important energy levels in Mg isotopes"
- **PI**, Ministry of Science, 30,000,000 KRW — Jun. 2014 - May 2015
  "Commissioning of portable ion counter using MC-50 proton beams"
- **PI**, Ministry of Science, 100,000,000 KRW — Aug. 2013 - Feb. 2014
  "Detailed design of focal plane detection system and Gamma-array for Recoil spectrometer"
- **Participating Researcher**, Ministry of Education, 60,000,000 KRW — Oct. 2012 - Apr. 2013
  "Research on the Creation of New National Industry Using High Energy Particle Accelerator Technology"
- **Participating Researcher**, IBS, 550,000,000 KRW — Oct. 2012 - Apr. 2013
  "Detailed Design of Sub-system for Detectors and Experimental Equipments"
- **PI**, Ministry of Education, 153,270,000 KRW — Sep. 2012 - Aug. 2015
  "Research on Nuclear Astrophysics and Structure using Heavy Ion Beams"
- **PI**, Sungkyunkwan University, 15,000,000 KRW — Jul. 2012 - June 2013
  "Nuclear reaction evaluation for astrophysical phenomenon"
- **PI**, Ministry of Education, 60,000,000 KRW — Jun. 2012 - May 2014
  "Developing portable fast ionization chamber"

AWARDS

- Best Presentation Award
  "Constraining the spins of energy levels in ^{21}Na nucleus through the ^{24}Mg(p,α)^{21}Na reaction"
  Korean Physical Society (2015).
- Director's award for outstanding team accomplishment in Science and Technology,
  Oak Ridge National Laboratory (2010).
- Outstanding team accomplishment in Scientific Research, Oak Ridge National Laboratory (2010).

TEACHING EXPERIENCE

KYUNGYUK CHAE

- **Associate Professor**, Sungkyunkwan University Mar. 2016 - Present
  Nuclear Physics: Fall 2016, Fall 2017
  General Physics I: Spring 2016, Spring 2017
  Graduate students mentored: Minsik Kwag, Soomi Cha, Eunji Lee, Jaeha Lee, Minju Kim, Duhyun Kim, Kim Uyen Nguyen
  Undergraduage students mentored: Duhyun Kim, Minhyeok Kang
  Post-scholars mentored: Aram Kim, Nguyen Ngoc Duy, Sangin Bak
- **Assistant Professor**, Sungkyunkwan University Mar. 2012 - Feb. 2016
  Nuclear Astrophysics I: Spring 2015
  Nuclear Astrophysics II: Fall 2015
  Nuclear Physics: Fall 2012, Fall 2013, Fall 2014, Fall 2015
  General Physics I: Spring 2012, Spring 2013, Spring 2014, Spring 2015
  Graduate students mentored: Minsik Kwag, Soomi Cha, Eunji Lee, Jaeha Lee
  Undergraduage students mentored: Minsik Kwag, Soomi Cha, Eunji Lee, Jaeha Lee, Minju Kim, Duhyun Kim
  Post-scholars mentored: Aram Kim

WORKSHOPS

- Origin of Matter and Evolution of Galaxies (OMEG 2017) June 2017
  Daejeon, Korea
  Organizing Committee
- SKKU mini workshop October 2016
  Suwon, Korea
  Chair
- The 2nd Sicily-East Asia Workshop on Low-energy Nuclear Physics June 2016
  the University of Tokyo, Japan
  Chair
- SKKU International Symposium on Recent Progress in Physics Novemver 2014
  Suwon, Korea
  Scientific Secretary
- SKKU Symposium on Astrophysics and Cosmology: from Particle to Universe December 2013
  Suwon, Korea
  Organizing Committee
- Workshop on experimental nuclear studies using RIBs October 2013
  Suwon, Korea
  Organizing Committee
- SKKU Symposium on Astrophysics and Cosmology: from Particle to Universe August 2012
  Suwon, Korea
  Organizing Committee

LANGUAGES

- Korean: native language
- English: fluent

KYUNGYUK CHAE

CITIZENSHIP: **REPUBLIC OF KOREA (SOUTH KOREA)**

INVITED TALKS

- "Nuclear Astrophysics Experiments using KOBRA"
  K.Y. Chae
  Accelerator Science Department Seminar
  Korea University, Sejong, Korea, December 13, 2017
- "Understanding Explosive Stellar Events using Rare Isotope Beams: Experimental Nuclear Astrophysics"
  K.Y. Chae
  2017 Korean Astronomical Society Fall Meeting
  Expo Convention Center, Yeoso, Korea, October 13, 2017
- "The ^{26g}Al(p,γ)^{27}Si reaction rate for astrophysical implication"
  K.Y. Chae
  2017 2nd CHEA Workshop
  UNIST, Ulsan, Korea, April 7, 2017
- "The ^{18}Ne(α,α)^{18}Ne reaction measurement for the astrophysical ^{18}Ne(α,p)^{21}Na reaction rate"
  K.Y. Chae
  2017 1st CHEA Workshop
  Haeundae Grand Hotel, Busan, Korea, January 17, 2017
- "Nuclear astrophysics: the origin of chemical elements"
  K.Y. Chae
  Physics Department Colloquium
  UNIST, Ulsan, Korea, November 23, 2016
- "Measurement of the ^{18}Ne+α system for the α-cluster structure in ^{22}Mg"
  K.Y. Chae
  2016 IBS Annual Meeting (2016)
  Daejeon, Korea, November 17 - 18, 2016
- "Low-energy nuclear physics measurements at KOBRA"
  K.Y. Chae
  2nd Sicily-East Asia Workshop (2016)
  RIKEN, Japan, June 26 - 29, 2016
- "Study of a cluster structure in ^{22}Mg: Actually, the ^{22}Ne+α system!"
  K.Y. Chae
  2nd Studies on Rare Isotope based Nuclear Physics (2016)
  Korea Aerospace University, Goyang, Korea, April 8, 2016
- "Proposals of the day-1 experiments at KOBRA"
  K.Y. Chae
  Japan-Korea Joint Session of the 71th JPS Annual Meeting
  Tohoku Gakuin University, Sendai, Japan, March 19 - 22, 2016
- "The Separator for Capture Reaction, SECAR"
  K.Y. Chae
  1st Studies on Rare Isotope based Nuclear Physics (2016)
  Ewha Womans University, Seoul, Korea, January 7, 2016
- "The astrophysical ^{26g}Al(p,γ)^{27}Si destruction rate"
  K.Y. Chae

Frontiers of Physics
The Ocean Resort, Yeosu, Korea, December 20 - 23, 2015

- "Supersonic gas jet target system for low energy nuclear physics experiments"
  K.Y. Chae
  KOBRA workshop
  RISP, Daejeon, Korea, November 21, 2015
- "The greatest alchemist in the Universe"
  K.Y. Chae
  Physics Department Colloquium
  Korea University, Seoul, Korea, November 3, 2015
- "Explosive Stars: the Alchemist"
  K.Y. Chae
  Physics Department Colloquium
  Kyungpook National University, Daegu, Korea, October 15, 2015
- "Possible day-1 experiment at KOBRA"
  K.Y. Chae
  KOBRA workshop
  RISP, Daejeon, Korea, August 13 - 14, 2015
- "Constraint of the astrophysical ^{26g}Al(p,γ)^{27}Si destruction rate"
  K.Y. Chae
  Nuclear-Astrophysics: Theory and Experiments
  APCTP, Pohang, Korea, July 17 - 18, 2015
- "Low energy facility of RAON and supersonic gas jet target"
  K.Y. Chae
  Joint US-Korea Exploratory Workshop on Opportunities for Collaboration in Nuclear Science
  Facility for Rare Isotope Beams, East Lansing, USA, May 14 - 15, 2015
- "Instruments for scientific researches at NSCL"
  K.Y. Chae
  2nd Studies on Rare Isotope based Nuclear Physics (2015)
  Chung-Ang University, Seoul, Korea, February 26, 2015
- "International Collaborations for Low Energy Experiments at RAON"
  K.Y. Chae
  1st Studies on Rare Isotope based Nuclear Physics (2015)
  Yonsei University, Seoul, Korea, January 9, 2015
- "Transfer reaction studies on ^{24}Mg for astrophysical implications"
  K.Y. Chae
  Korean Physical Society 2014 Fall Meeting, Pioneering Symposium
  Kim Dae Jung Convention Center, Gwangju, Korea, October 22 - 24, 2014
- "Transfer reaction studies on ^{24}Mg"
  K.Y. Chae
  18th Workshop on Astro-Nuclear Physics
  Soongsil University, Seoul, Korea, August 18 - 20, 2014
- "Radioactive Ion Beam Facility in Korea, RAON"
  K.Y. Chae

1st Sicily-East Asia Workshop
Sala Consiglio, SDS Architettura, Ortigia, Italy, July 28 - 31, 2014

- "Experimental Nuclear Astrophysics"
  K.Y. Chae
  3rd Studies on Rare Isotope based Nuclear Physics
  Korea Aerospace University, Goyang, Korea, April 11, 2014

- "Target and detector systems for KOBRA"
  K.Y. Chae
  1st RIBF-RISP Joint Workshop,
  RISP, Daejeon, Korea, November 7 - 8, 2013

- "Connection between CNO cycle and rp-process"
  K.Y. Chae
  Rare Isotopes and Nuclear Astrophysics with related topics Workshop,
  APCTP, Pohang, Korea, September 25 - 27, 2013

- "Thinking Star Dust: Experimental Nuclear Astrophysics"
  K.Y. Chae
  Physics Department Colloquium,
  Sogang University, Seoul, Korea, June 4, 2013

- "Gas Jet Target for Astrophysically Important Nuclear Reaction Studies using Radioactive Ion Beams"
  K.Y. Chae
  Korean Physical Society 2013 Spring Meeting, Pioneering Symposium,
  Daejeon Convention Center, Daejeon, Korea, April 24 - 26, 2013

- "New Era of Experimental Nuclear Astrophysics"
  K.Y. Chae
  Physics Department Colloquium,
  Chung Ang University, Seoul, Korea, April 1, 2013

- "Nuclear Astrophysics Experiments using Radioactive Ion Beams"
  K.Y. Chae
  2012 Nuclear Physics School,
  Asia Pacific Center for Theoretical Physics, Pohang, Korea, June 25 - 29, 2012

- "Study of ^{18}F + p Resonances Relevant for Novae"
  K.Y. Chae
  Korean Physical Society 2012 Spring Meeting,
  Daejeon Convention Center, Daejeon, Korea, April 25 - 27, 2012

- "Cooking up elements in the universe: Nuclear astrophysics with exotic ion beams"
  K.Y. Chae
  Physics Department Colloquium,
  Sungkyunkwan University, Suwon, Korea, April 4, 2012

- "Bringing stellar reactions to earth"
  K.Y. Chae
  Sungkyunkwan University, Suwon, Korea, June 17, 2011

- "Overview of Nuclear Reaction Measurements for Basic Nuclear Science and Astrophysics"
  K.Y. Chae

Stockpile Stewardship Academic Alliance Meeting,
Lawrence Livermore National Laboratory, Livermore, California, USA, May 23 - 24, 2011

- "Cooking up elements in the universe: Recent activities at HRIBF"
  K.Y. Chae
  Nuclear Physics Group Seminar,
  Sungkyunkwan University, Suwon, Korea, August 11, 2009
- "We are stardust: Recent activities in nuclear astrophysics at ORNL"
  K.Y. Chae
  Nuclear Physics Group Seminar,
  Chung Ang University, Seoul, Korea, August 10, 2009
- "Cooking up elements in explosive stars"
  K.Y. Chae
  Nuclear Physics Group Seminar,
  Pusan National University, Pusan, Korea, May 16, 2008
- "Spin assignments of ^{22}Mg through a ^{24}Mg$(p,t)^{22}$Mg measurement"
  K.Y. Chae
  Nuclear Physics Group Seminar,
  University of Tennessee, Knoxville, USA, April 21, 2008
- "Interference effects among J^{π}=3/2^{+} resonances in ^{19}Ne system"
  K.Y. Chae
  Nuclear Physics Group Seminar,
  University of Tennessee, Knoxville, USA, February 19, 2007
- "First experimental constraints on the interference of 3/2^{+} resonances in the ^{18}F$(p,\alpha)^{15}$O reaction"
  K.Y. Chae, D.W. Bardayan, J.C. Blackmon, D. Gregory, M.W. Guidry, M.S. Johnson, R.L. Kozub, R.J. Livesay, Z. Ma, C.D. Nesaraja, S.D. Pain, S. Paulaskas, M. Porter-Peden, J.F. Shriner Jr., N. Smith, M.S. Smith, J.S. Thomas
  HRIBF workshop on nuclear measurements for astrophysics,
  Oak Ridge, Tennessee, USA, October 23 - 24, 2006

PRESENTATIONS

- "New method of measuring low-energy (α,p) reactions in inverse kinematics"
  K.Y. Chae, S. Ahn, A. Ayres, D.W. Bardayan, A. Bey, U. Greife, M.E. Howard, K.L. Jones, R.L. Kozub, M. Matos, B.H. Moazen, C.D. Nesajara, P.D. O'Malley, W.A. Peters, S.T. Pittman, M.S. Smith
  2018 JINA-CEE Frontiers in Nuclear Astrophysics,
  University of Notre Dame, Notre Dame, Indiana, USA, May 21 - 25, 2018
- "Study of the ^{2}H(^{7}Be,p+^{3}He+^{4}He)n reaction for resonances in ^{8}B"
  K.Y. Chae
  The 21th International Conference on Accelerators and Beam Utilizations,
  Hwabaek International Convention Center, Gyeongju, Korea, November 15 - 17, 2017
- "Spectroscopic study of radionuclide ^{21}Na for the astrophysical ^{17}F$(\alpha,p)^{20}$Ne reaction rate"
  K.Y. Chae
  Korean Physical Society 2017 Fall Meeting,
  Hwabaek International Convention Center, Gyeongju, Korea, October 25 - 27, 2017

- "Construction and Commissioning of a Position-Sensitive Ionization Chamber"
  K.Y. Chae
  Korean Physical Society 2016 Spring Meeting,
  Daejeon Convention Center, Daejeon, Korea, April 20 - 22, 2016

- "Study of the ^{26}Al(d,p)^{27}Al reaction for the astrophysical ^{26g}Al(p,γ)^{27}Si reaction rate"
  K.Y. Chae, M.S. Gwak, S.M. Cha, S.W. Jo
  Korean Physical Society 2015 Fall Meeting,
  Hwabaek Center, Gyeongju, Korea, October 21 - 23, 2015

- "Developing portable fast ionization chamber"
  K.Y. Chae, M.S. Gwak, S.M. Cha, S.W. Jo
  Korean Physical Society 2013 Spring Meeting,
  Daejeon Convention Center, Daejeon, Korea, April 24 - 26, 2013

- "Searching for resonances in the unbound ^{6}Be nucleus"
  K.Y. Chae, D.W. Bardayan, J.C. Blackmon, Z. Ma, C.D. Nesaraja, M.S. Smith, A.E. Champagne, R.P. Fitgerald, D.W. Visser, J.J. Das, V. Guimaraes, K.L. Jones, S.D. Pain, J.S. Thomas, M.S. Johnson, R.L. Kozub, R.J. Livesay
  Korean Physical Society 2012 Fall Meeting,
  Phoenix Park, Pyeongchang, Korea, October 24 - 26, 2012

- "Developing a fast ionization chamber for transfer reaction studies"
  K.Y. Chae, S.H. Ahn, D.W. Bardayan, B. Manning, S.D. Pain, W.A. Peters, K.T. Schmitt, M.S. Smith, S. Strauss
  The Annual Meeting of the Division of Nuclear Physics of the American Physics Society,
  East Lansing, Michigan, USA, October 26 - 29, 2011.

- "Study of the ^{19}F(α,p)^{22}Ne reaction with an extended gas target"
  K.Y. Chae, S.H. Ahn, A. Ayres, D.W. Bardayan, A. Bey, M.E. Howard, K.L. Jones, R.L. Kozub, M. Matos, B.H. Moazen, C.D. Nesaraja, P.D. O'Malley, W.A. Peters, S.T. Pittman, M.S. Smith
  The Annual Meeting of the Division of Nuclear Physics of the American Physics Society,
  Santa Fe, New Mexico, USA, November 2 - 6, 2010.

- "A new technique for measuring astrophysically important (α,p) reactions"
  K.Y. Chae, S.H. Ahn, A. Ayres, D.W. Bardayan, A. Bey, M.E. Howard, K.L. Jones, R.L. Kozub, M. Matos, B.H. Moazen, C.D. Nesaraja, P.D. O'Malley, W.A. Peters, S.T. Pittman, M.S. Smith
  Nuclei in the Cosmos XI,
  Heidelberg, Germany, July 19 - 23, 2010.

- "Spin assignments to excited states in ^{22}Na through a ^{24}Mg(p,^{3}He)^{22}Na reaction measurement"
  K.Y. Chae, D.W. Bardayan, J.C. Blackmon, B.H. Moazen, K.A. Chipps, R. Hatarik, K.L. Jones, R.L. Kozub, J.F. Liang, C.D. Nesaraja, P.D. O'Malley, C. Matei, S.D. Pain, S.T. Pittman, M.S. Smith
  The April Meeting 2010 of the American Physical Society,
  Washington D.C., USA, February 13 - 17, 2010.

- "Spin assignments of ^{22}Mg levels through a ^{24}Mg(p,t)^{22}Mg measurement"
  K.Y. Chae, D.W. Bardayan, J.C. Blackmon, B.H. Moazen, K.A. Chipps, R. Hatarik, K.L. Jones, R.L. Kozub, J.F. Liang, C.D. Nesaraja, P.D. O'Malley, C. Matei, S.D. Pain, S.T. Pittman, M.S. Smith
  The April Meeting 2009 of the American Physical Society,
  Denver, Colorado, USA, May 2 - 5, 2009.

- "Searching for resonances in the unbound ^{6}Be nucleus"
  K.Y. Chae, D.W. Bardayan, J.C. Blackmon, J.J. Das, M.W. Guidry, V. Guimarães, K.L. Jones, M.S. Johnson, R.L. Kozub, R.J. Livesay, Z. Ma, C.D. Nesaraja, S.D. Pain, M.S. Smith, J.S. Thomas, D.W. Visser
  20th International Conference on the Application of Accelerators in Research and Industry,
  Fort Worth, Texas, USA, August 10 - 15, 2008.

- "Spin assignments of ^{22}Mg through a ^{24}Mg(p,t)^{22}Mg measurement"
  K.Y. Chae, D.W. Bardayan, J.C. Blackmon, B.H. Moazen, K. Chipps, R. Hatarik, K.L. Jones, R.L. Kozub, J.F. Liang, C.D. Nesaraja, P.D. O'Malley, C. Matei, S.D. Pain, S.T. Pittman, M.S. Smith
  Nuclei in the Cosmos X,
  Mackinac Island, Michigan, USA, July 27 - August 1, 2008.

- "Spin assignments of ^{22}Mg through ^{24}Mg(p,t)^{22}Mg reaction measurement"
  K.Y. Chae, D.W. Bardayan, J.C. Blackmon, B.H. Moazen, K.A. Chipps, R. Hatarik, K.L. Jones, R.L. Kozub, J.F. Liang, C.D. Nesaraja, P.D. O'Malley, C. Matei, S.D. Pain, S.T. Pittman, M.S. Smith
  The April Meeting 2008 of the American Physical Society,
  St. Louis, Missouri, USA, April 12 - 15, 2008.

- "Searching for resonances in the unbound ^{6}Be nucleus"
  K.Y. Chae, D.W. Bardayan, J.C. Blackmon, J.J. Das, M.W. Guidry, V. Guimarães, K.L. Jones, M.S. Johnson, R.L. Kozub, R.J. Livesay, Z. Ma, C.D. Nesaraja, S.D. Pain, M.S. Smith, J.S. Thomas, D.W. Visser
  The Annual Meeting of the Division of Nuclear Physics of the American Physics Society,
  Newport News, Virginia, USA, October 10 - 13, 2007.

- "Searching for resonances in the unbound ^{6}Be nucleus"
  K.Y. Chae, D.W. Bardayan, J.C. Blackmon, J.J. Das, M.W. Guidry, V. Guimarães, K.L. Jones, M.S. Johnson, R.L. Kozub, R.J. Livesay, Z. Ma, C.D. Nesaraja, S.D. Pain, M.S. Smith, J.S. Thomas, D.W. Visser
  Frontiers 2007,
  University of Notre Dame, Indiana, USA, August 19 - 21, 2007.

- "Searching for resonances in the unbound ^{6}Be nucleus"
  K.Y. Chae, D.W. Bardayan, J.C. Blackmon, J.J. Das, M.W. Guidry, V. Guimarães, K.L. Jones, M.S. Johnson, R.L. Kozub, R.J. Livesay, Z. Ma, C.D. Nesaraja, S.D. Pain, M.S. Smith, J.S. Thomas, D.W. Visser
  Stewardship Science Academic Alliance 2007 Program Symposium,
  Washington DC, USA, February 5 - 7, 2007.

- "First experimental constraints on the interference of 3/2^{+} resonances in the ^{18}F(p,α)^{15}O reaction"
  K.Y. Chae, D.W. Bardayan, J.C. Blackmon, D. Gregory, M.W. Guidry, M.S. Johnson, R.L. Kozub, R.J. Livesay, Z. Ma, C.D. Nesaraja, S.D. Pain, S. Paulaskas, M. Porter-Peden, J.F. Shriner Jr., N. Smith, M.S. Smith, J.S. Thomas
  The Annual Meeting of the Division of Nuclear Physics of the American Physics Society,
  Nashville, Tennessee, USA, October 25 - 28, 2006.

- "First experimental constraints on the interference of 3/2^{+} resonances in the ^{18}F(p,α)^{15}O reaction"
  K.Y. Chae, D.W. Bardayan, J.C. Blackmon, D. Gregory, M.W. Guidry, M.S. Johnson, R.L. Kozub, R.J. Livesay, Z. Ma, C.D. Nesaraja, S.D. Pain, S. Paulaskas, M. Porter-Peden, J.F. Shriner Jr., N. Smith, M.S. Smith, J.S. Thomas
  HRIBF workshop on nuclear measurements for astrophysics,
  Oak Ridge, Tennessee, USA, October 23 - 24, 2006

- "First experimental constraints on the interference of 3/2^{+} resonances in the ^{18}F(p,α)^{15}O reaction"
  K.Y. Chae, D.W. Bardayan, J.C. Blackmon, D. Gregory, M.W. Guidry, M.S. Johnson, R.L. Kozub, R.J. Livesay, Z. Ma, C.D. Nesaraja, S.D. Pain, S. Paulaskas, M. Porter-Peden, J.F. Shriner Jr., N. Smith, M.S. Smith, J.S. Thomas

Nuclei in the Cosmos IX,
Geneva, Switzerland, June 25 - 30, 2006.

- "Java 3D Interactive Visualization for Astrophysics"
  K.Y. Chae, D. Edirisinghe, E.J. Lingerfelt, M.W. Guidry
  American Astronomical Society 202nd meeting,
  Nashville, Tennessee, USA, May 25 - 29, 2003.

PUBLICATIONS - SCI(E)

- "New γ-ray transitions observed in ^{19}Ne with implications for the ^{15}O(α,γ) reaction rate"
  M.R. Hall, D.W. Bardayan, T. Baugher, A. Lepailleur, S.D. Pain, A. Ratkiewicz, S. Ahn, J.M. Allen, J.T. Anderson, A.D. Ayangeakaa, J.C. Blackmon, S. Burcher, M.P. Carpenter, S.M. Cha, **K.Y. Chae**, K.A. Chipps, J.A. Cizewski, M. Febbraro, O. Hall, J. Hu, C.L. Jiang, K.L. Jones, E.J. Lee, P.D. O'Malley, S. Ota, B.C. Rasco, D. Santiago-Gonzales, D. Seweryniak, H. Sims, K. Smith, W.P. Tan, P. Thompson, C. Thornsberry, R.L. Varner, D. Walter, G.L. Wilson, S. Zhu
  submitted to Phys. Rev. (2018)

- "s-wave scattering lengths for the ^{7}Be+p system from an R-matrix analysis"
  S.N. Paneru, C.R. Brune, R. Giri, R.J. Livesay, U. Greife, J.C. Blackmon, D.W. Bardayan, K.A. Chipps, B. Davids, C. Ruiz, D.S. Connolly, **K.Y. Chae**, A.E. Champagne, C. Deibel, R.P. Fitzgerald, K.L. Jones, M.S. Johnson, R.L. Kozub, Z. Ma, C.D. Nesaraja, S.D. Pain, F. Sarazin, J.F. Shriner, Jr., D.W. Stracener, M.S. Smith, J.S. Thomas, D.W. Visser, C. Wrede
  submitted to Phys. Rev. C (2018)

- "Proton Shell Evolution below ^{132}Sn: First Measurement of Low-Lying β-emitting Isomers in ^{123,125}Ag"
  Z.Q. Chen, Z.H. Li, H. Hua, H. Watanabe, C.X. Yuan, S.Q. Zhang, G. Lorusso, S. Nishimura, F. Browne, H. Baba, G. Benzoni, **K.Y. Chae**, F.C.L. Crespi, P. Doornenbal, N. Fukuda, G. Gey, R. Gernhauser, N. Inabe, T. Isobe, D.X. Jiang, A. Jungclaus, H.S. Jung, Y. Jin, D. Kameda, G.D. Kim, Y.K. Kim, I. Kojouharov, F.G. Kondev, T. Kubo, N. Kurz, Y.K. Kwon, X.Q. Li, J.L. Lou, G.J. Lane, C.G. Li, D.W. Luo, A. Montaner-Piza, K. Moschner, C.Y. Niu, F. Naqvi, M. Niikura, H. Nishibata, A. Odahara, R. Orlandi, Z. Patel, Zs. Podolyak, T. Sumikama, P.-A. Soderstrom, H. Sakurai, H. Schaffner, G.S. Simpson, K. Steiger, H. Suzuki, J. Taprogge, H. Takeda, Zs. Vajta, H.K. Wang, J. Wu, A. Wendt, C.G. Wang, H.Y. Wu, X. Wang, C.G. Wu, C. Xu, Z.Y. Xu, A. Yagi, Y.L. Ye, K. Yoshinaga
  submitted to Phys. Rev. Lett. (2018)

- "Interplay of quasiparticle and vibrational excitations around the double midshell: Isomeric states in ^{168}Dy and ^{169}Dy"
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- "Interactive Kinematics Code for Transfer Reactions (INK)"
  D.H. Kim, **K.Y. Chae**
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- "Isomer Spectroscopy of Neutron-Rich ^{168}Tb$_{103}$"
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