

## Tan Ahn

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University of Notre Dame  
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### Education

Ph.D., Physics, Stony Brook University, (Spring 2008)

Concentration: Experimental Nuclear Physics

Dissertation:

*Evolution of the One-Quadrupole Phonon Mixed-Symmetry State in the  $A = 140$  Mass Region*

Thesis advisor: Dr. Norbert Pietralla

M.S., Physics, Stony Brook University, (Winter 2004)

Concentration: Instrumentation

Thesis: *Digital Signal Processing for Ge Detectors*

Thesis advisor: Dr. Krzysztof Starosta

B.S., Physics, Stony Brook University, (Spring 2002)

### Positions

Assistant Professor, (Summer 2014 – present)

Department of Physics

University of Notre Dame, Notre Dame, IN

Research Associate, (Fall 2011 – Summer 2014)

National Superconducting Cyclotron Laboratory

Michigan State University, East Lansing, MI

Postdoctoral Associate, (Summer 2008 – Summer 2011)

A. W. Wright Nuclear Structure Laboratory

Yale University, New Haven, CT

Research Assistant, (Fall 2006 – Spring 2008)

Institut für Kernphysik

Technische Universität Darmstadt, Darmstadt, Germany

Research Assistant, (Spring 2006 – Fall 2006)

Institut für Kernphysik

Universität zu Köln, Cologne, Germany

Research Assistant, (Summer 2002 – Summer 2003), (Fall 2004 – Spring 2006)  
Department of Physics and Astronomy  
State University of New York at Stony Brook, Stony Brook, NY

Undergraduate Research Assistant, (Summer 2001 – Summer 2002)  
Nuclear Structure Group  
State University of New York at Stony Brook, Stony Brook, NY

### **Research Skills**

Knowledge of semi-conductor radiation detectors, in- and off-beam nuclear-decay spectroscopy, lifetime measurements, low-energy nuclear reactions, time-projection chambers, radioactive-ion beams, multi-event data analysis.

### **Teaching**

Guest Lecturer (1/31/2011, 2/2/2011, 4/15/2011)  
Yale University, New Haven, CT  
Course: Electromagnetic Fields and Optics

Physics Adjunct (Fall 2010)  
University of New Haven, West Haven, CT  
Course: Mechanics, Waves, and Heat

Teaching Assistant, (Fall 2003 – Spring 2004)  
State University of New York at Stony Brook, Stony Brook, NY  
Courses: Introductory Physics Laboratory for Life Science Majors I, II

### **Teaching Activities**

Learning to Mentor the Next Generation of Scientists,  
McDougal Graduate Teaching Center, Yale University, New Haven, CT (Spring 2011)

Center for Research on Interface Structures and Phenomena (CRISP) Professional Development Workshop: Best Practices for Science Demonstrations,  
Connecticut Science Center, Hartford, CT (2/12/2011)

Preparing Future Science Faculty: Teaching Your Own Course,  
McDougal Graduate Teaching Center, Yale University, New Haven, CT (Spring 2010)

### **Presentations**

*Moving towards exotic isotopes with the AT-TPC*, Nuclear Seminar, IPN Orsay, Orsay, France (January 2013)

*Increasing gain and dynamic range for active-target time-projection chambers*, Division of Nuclear Physics Meeting of the American Physical Society, Newport Beach, CA (October 2012)

*Study of Isobaric Analog States in the Sn region with CARIBU and Prototype AT-TPC*, Heavy-Ion Discussion, Argonne National Laboratory, Lemont, IL (October 2012)

*Road to the AT-TPC*, Research Discussions, NSCL, Michigan State University, East Lansing, MI (April 2012)

*Probing the Evolution of Collective Excitations in Atomic Nuclei in the  $A = 120$  Mass Region, Special Seminar*, Michigan State University, East Lansing, MI (September 2011)

*Probing the Evolution of Collective Excitations in Atomic Nuclei in the  $A = 120$  Mass Region, Seminar*, Lawrence Livermore National Laboratory, Livermore, CA (August 2011)

*Testing Valence-Proton Symmetry for Te and Cd*, Division of Nuclear Physics Meeting of the American Physical Society, Santa Fe, New Mexico, (November 2010)

*$\gamma$ -ray spectroscopy of  $^{213,214}\text{Th}$  using SASSYER*, Third Joint Meeting of the Nuclear Physics Divisions of the American Physical Society and the Physical Society of Japan, Waikoloa, Hawaii, (October 2009)

*Recent studies of light Th nuclei at Yale*, Workshop: Nuclear Structure Physics Near the Coulomb Barrier, Yale University, New Haven, CT, (June 2009)

*Search for mixed-symmetry states in the  $A = 130$  mass region using Coulomb excitation*, Nuclear Physics Seminar, A. W. Wright Nuclear Structure Laboratory, Yale University, (January 2008)

*Mixed-symmetry states observed in inverse kinematics Coulomb excitation in the  $A = 130$  region*, German Physical Society Spring Meeting, Gießen, Germany (March 2007)

*Coulomb Excitation of Mixed-Symmetry States*, Institut für Kernphysik Oberseminar, Universität zu Köln, Cologne, Germany (May 2006)

*Measurement of multipole mixing ratios in  $^{136}\text{Ce}$* , Workshop: Nuclear Structure Physics Near the Coulomb Barrier, Yale University, New Haven, CT (June 2005)

*$E0$  transitions in the confined-beta-soft rotor model*, Division of Nuclear Physics Meeting of the American Physical Society, Chicago, IL (October 2004)

## Refereed Publications

*Resonance alpha scattering of  $^6\text{He}$ ; limits of clustering in  $^{10}\text{Be}$* , D. Suzuki, A. Shore, W. Mittig, J. J. Kolata, D. Bazin, M. Ford, **T. Ahn**, F. D. Becchetti, D. Ben Ali, B. Bucher, J. Browne, X. Fang, M. Febbraro, A. Fritsch, E. Galyaev, A. M. Howard, N. Keeley, W. G. Lynch, M. Ojaruega, A. L. Roberts, X. D. Tang, Phys. Rev. C, 87 0054301 (2013)

*Precise  $\gamma$ -ray intensity measurements in  $^{10}\text{B}$* , E. A. McCutchan, C. J. Lister, M. Elvers, D. Savran, J. P. Greene, T. Ahmed, **T. Ahn**, N. Cooper, A. Heinz, R. O. Hughes, G. Ilie, B. Pauerstein, D. Radeck, N. Shenkov, V. Werner, Phys. Rev. C 86, 057306 (2012)

*Prototype AT-TPC: Toward a new generation active target time projection chamber for radioactive beam experiments*, D. Suzuki, M. Ford, D. Bazin, W. Mittig, W. G. Lynch, **T. Ahn**, S. Aune, E. Galyaev, A. Fritsch, J. Gilbert, F. Montes, A. Shore, J. Yurkon, J. J. Kolata, J. Browne, A. Howard, A. L. Roberts, X. D. Tang, Nuclear Instruments and Methods in Physics Research Section A 691, 39 (2012)

*Absolute  $\beta$ -to-ground band transition strengths in  $^{154}\text{Sm}$* , T. Moller, N. Pietralla, G. Rainovski, **T. Ahn**, C. Bauer, M. P. Carpenter, L. Coquard, R. V. F. Janssens, J. Leske, C. J. Lister, E. A. McCutchan, O. Moller, D. Seweryniak, S. Zhu, Phys. Rev. C 86, 031305 (2012)

*Identification of the  $2^+_{1,ms}$  mixed-symmetry state in  $^{136}\text{Ce}$* , **T. Ahn**, G. Rainovski, N. Pietralla, L. Coquard, T. Moller, A. Costin, R. V. F. Janssens, C. J. Lister, M. P. Carpenter, S. Zhu, Phys. Rev. C 86, 014303 (2012)

*Structure of the Sr-Zr isotopes near and at the magic  $N=50$  shell from  $g$ -factor and lifetime measurements in  $^{88}_{40}\text{Zr}$  and  $^{84,86,88}_{38}\text{Sr}$* , G. J. Kumbartzki, K.-H. Speidel, N. Benczer-Koller, D. A. Torres, Y. Y. Sharon, L. Zamick, S. J. Q. Robinson, P. Maier-Komor, **T. Ahn**, V. Anagnostatou, Ch. Bernards, M. Elvers, P. Goddard, A. Heinz, G. Ilie, D. Radeck, D. Savran, V. Werner, E. Williams, Phys. Rev. C 85, 044322 (2012)

*$g$  factor of the  $2^+_1$  state of  $^{168}\text{Hf}$* , A. Wolf, Z. Berant, V. Werner, A. Heinz, R. F. Casten, R. J. Casperson, D. S. Brenner, R. Chevrier, D. McCarthy, G. Ilie, E. Williams, J. Qian, J. R. Terry, **T. Ahn**, R. Winkler, Phys. Rev. C 85, 037304 (2012); Erratum Phys. Rev. C 86, 019902 (2012)

*Measurement of the  $^{96}\text{Ru}$   $g(4^+_1)$  factor and its nuclear structure interpretation*, D. A. Torres, G. J. Kumbartzki, Y. Y. Sharon, L. Zamick, B. Manning, N. Benczer-Koller, K.-H. Speidel, **T. Ahn**, V. Anagnostatou, M. Elvers, P. Goddard, A. Heinz, G. Ilie, D. Radeck, D. Savran, V. Werner, G. Gurdal, M. J. Taylor, P. Maier-Komor, M. Hjorth-Jensen, S. J. Q. Robinson, Phys. Rev. C 85, 017305 (2012)

*Simultaneous deorientation and lifetime measurement in  $^{98}\text{Ru}$  using the recoil distance Doppler shift method in inverse Coulomb excitation*, D. Radeck, V. Werner, G. Ilie, N. Cooper, V. Anagnostatou, **T. Ahn**, L. Bettermann, R. J. Casperson, R. Chevrier, A. Heinz, J. Jolie, D. McCarthy, M. K. Smith, E. Williams, Phys. Rev. C 85, 014301 (2012)

*Investigation of octupole vibrational states in  $^{150}\text{Nd}$  via inelastic proton scattering ( $p, p'$ )*, M. Elvers, S. Pascu, T. Ahmed, **T. Ahn**, V. Anagnostatou, N. Cooper, C. Deng, J. Endres, P. Goddard, A. Heinz, G. Ilie, E. Jiang, C. Koppersbusch, D. Radeck, D. Savran, N. Shenkov, V. Werner, A. Zilges, Phys. Rev. C 84, 054323 (2011)

*First  $g$ -factor measurements of the  $2^+_1$  and the  $4^+_1$  states of radioactive  $^{100}\text{Pd}$* , D. A. Torres, G. J. Kumbartzki, Y. Y. Sharon, L. Zamick, B. Manning, N. Benczer-Koller, G. Gurdal, K.-H. Speidel, M. Hjorth-Jensen, P. Maier-Komor, S. J. Q. Robinson, **T. Ahn**, V. Anagnostatou, M. Elvers, P. Goddard, A. Heinz, G. Ilie, D. Radeck, D. Savran, V. Werner, Phys. Rev. C 84, 044327 (2011)

*O(6)-symmetry breaking in the  $\gamma$ -soft nucleus  $^{126}\text{Xe}$  and its evolution in the light stable xenon isotopes*, L. Coquard, G. Rainovski, N. Pietralla, **T. Ahn**, L. Bettermann, M. P. Carpenter, R. V. F. Janssens, J. Leske, C. J. Lister, O. Möller, T. Möller, W. Rother, V. Werner, S. Zhu, Phys. Rev. C 83 044318 (2011)

*Shape coexistence in  $^{72}\text{Se}$  investigated following the  $\beta$  decay of  $^{72}\text{Br}$* , E. A. McCutchan, C. J. Lister, **T. Ahn**, R. J. Casperson, A. Heinz, G. Ilie, J. Qian, E. Williams, R. Winkler, V. Werner, Phys. Rev. C 83, 024310 (2011)

*g factors of the low-lying states in  $^{106}\text{Pd}$ : Examination of the vibrational character of  $^{106}\text{Pd}$* , G. Gürdal, G. J. Kumbartzki, N. Benczer-Koller, Y. Y. Sharon, L. Zamick, S. J. Q. Robinson, **T. Ahn**, R. Casperson, A. Heinz, G. Ilie, J. Qian, V. Werner, E. Williams, R. Winkler, D. McCarthey, Phys. Rev. C 82, 064301 (2010)

*Evolution of the mixed-symmetry  $2^+_{1,ms}$  quadrupole-phonon excitation from spherical to  $\gamma$ -soft Xe nuclei*, L. Coquard, N. Pietralla, G. Rainovski, **T. Ahn**, L. Bettermann, M. P. Carpenter, R. V. F. Janssens, J. Leske, C. J. Lister, O. Möller, W. Rother, V. Werner, and S. Zhu, Phys. Rev. C 82, 024317 (2010)

*How close to the O(6) symmetry is the nucleus  $^{124}\text{Xe}$ ?*, G. Rainovski, N. Pietralla, **T. Ahn**, L. Coquard, C. J. Lister, R. V. F. Janssens, M. P. Carpenter, S. Zhu, L. Bettermann, J. Jolie, W. Rother, R. V. Jolos, V. Werner, Phys. Lett. B 683, 11 (2010)

*Robust test of E(5) symmetry in  $^{128}\text{Xe}$* , L. Coquard, N. Pietralla, **T. Ahn**, G. Rainovski, L. Bettermann, M. P. Carpenter, R. V. F. Janssens, J. Leske, C. J. Lister, O. Moller, W. Rother, V. Werner, S. Zhu, Phys. Rev. C 80, 061304 (2009)

*g factor of the  $2^+_{1,ms}$  state of  $^{172}\text{Hf}$* , Z. Berant, E. Oster, R. J. Casperson, A. Wolf, V. Werner, A. Heinz, R. F. Casten, G. Gurdal, E. A. McCutchan, D. S. Brenner, J. R. Terry, R. Winkler, E. Williams, J. Qian, A. Schmidt, M. K. Smith, **T. Ahn**, C. W. Beausang, P. H. Regan, T. Ross, M. Bunce, B. Darakchieva, D. A. Meyer, J. LeBlanc, K. Dudziak, C. Bauer, G. Henning, Phys. Rev. C 80, 057303 (2009)

*Competition between excited core states and  $1h\omega$  single-particle excitations at comparable energies in  $^{207}\text{Pb}$  from photon scattering*, N. Pietralla, T. C. Li, M. Fritzsche, M. W. Ahmed, **T. Ahn**, A. Costin, J. Enders, J. Li, S. Müller, P. von Neumann-Cosel, I. V. Pinayev, V. Yu. Ponomarev, D. Savran, A. P. Tonchev, W. Tornow, H. R. Weller, V. Werner, Y. K. Wu, A. Zilges, Phys. Lett. B 681 134 (2009)

*Evolution of the one-phonon  $2^+_{1,ms}$  mixed-symmetry state in N=80 isotones as a local measure for the proton-neutron quadrupole interaction*, **T. Ahn**, L. Coquard, N. Pietralla, G. Rainovski, A. Costin, R. V. F. Janssens, C. J. Lister, M. Carpenter, S. Zhu, K. Heyde, Phys. Lett. B 679, 19 (2009); Erratum Phys. Lett. B 682, 490 (2010)

*Candidates for the one-phonon mixed-symmetry state in  $^{130}\text{Xe}$* , L. Bettermann, C. Fransen, S. Heinze, J. Jolie, A. Linnemann, D. Mucher, W. Rother, **T. Ahn**, A. Costin, N. Pietralla, Y. Luo, Phys. Rev. C 79, 034315 (2009)

*Lifetime measurement of candidate chiral doublet bands in the  $^{103,104}\text{Rb}$  isotopes with the recoil-distance Doppler-shift method in inverse kinematics*, T. Suzuki, G. Rainovski, T. Koike, **T. Ahn**, M. P. Carpenter, A. Costin, M. Danchev, A. Dewald, R. V. F. Janssens, P. Joshi, C. J. Lister, O. Moller, N. Pietralla, T. Shinozuka, J. Timar, R. Wadsworth, C. Vaman, S. Zhu, Phys. Rev. C 78, 031302 (2008)

*New shell model calculations for  $^{40}\text{Ar}$  based on recent g-factor and lifetime measurements*, K.-H. Speidel, S. Schielke, J. Leske, N. Pietralla, **T. Ahn**, A. Costin, O. Zell, J. Gerber, P. Maier-Komor, S. J. Q. Robinson, A. Escuderos, Y. Y. Sharon, L. Zamick, Phys. Rev. C 78, 017304 (2008)

*First g-factor measurements on semi-magic  $^{36}\text{S}$  and their implications for the rigidity of the  $N = 20$  shell closure*, K.-H. Speidel, S. Schielke, J. Leske, N. Pietralla, **T. Ahn**, A. Costin, M. v. Schmid, O. Zell, J. Gerber, P. Maier-Komor, S. J. Q. Robinson, A. Escuderos, Y. Y. Sharon, L. Zamick, Phys. Lett. B 659, 101 (2008)

*High-spin structure of  $^{105}\text{Ag}$ : Search for chiral doublet bands*, J. Timar, T. Koike, N. Pietralla, G. Rainovski, D. Sohler, **T. Ahn**, G. Berek, A. Costin, K. Dusling, T. C. Li, E. S. Paul, K. Starosta, C. Vaman, Phys. Rev. C 76, 024307 (2007)

*$\gamma$ -ray multipolarimetry between low-spin states of  $^{136}\text{Ce}$ : Search for the  $2^+_{1,ms}$  one-phonon mixed symmetry state*, **T. Ahn**, N. Pietralla, G. Rainovski, A. Costin, K. Dusling, T. C. Li, A. Linnemann, S. Pontillo, Phys. Rev. C 75, 014313 (2007)

*Lifetime measurement for the  $2^+_{1,ms}$  state of  $^{170}\text{Hf}$* , A. Costin, **T. Ahn**, B. Bochev, K. Dusling, T. C. Li, N. Pietralla, G. Rainovski, W. Rother, Phys. Rev. C 74, 067301 (2006)

*First evidence for spin-flip M1 strength in  $^{40}\text{Ar}$* , T. C. Li, N. Pietralla, A. P. Tonchev, M. W. Ahmed, **T. Ahn**, C. Angell, M. A. Blackston, A. Costin, K. J. Keeter, J. Li, A. Lisetskiy, S. Mikhailov, Y. Parpottas, B. A. Perdue, G. Rainovski, W. Tornow, H. R. Weller, Y. K. Wu, Phys. Rev. C 73, 054306 (2006)

*Shell Stabilization of Nuclear Isovector Valence-Shell Excitations*, G. Rainovski, N. Pietralla, **T. Ahn**, C. J. Lister, R. V. F. Janssens, M. P. Carpenter, S. Zhu, C. J. Barton III, Phys. Rev. Lett. 96, 122501 (2006)

*Medium-spin  $\gamma$ -ray spectroscopy of the transitional nucleus  $^{160}\text{Er}$* , K. Dusling, N. Pietralla, G. Rainovski, **T. Ahn**, B. Bochev, A. Costin, T. Koike, T. C. Li, A. Linnemann, S. Pontillo, C. Vaman, Phys. Rev. C 73, 014317 (2006)

*Subnanosecond lifetime measurement for the  $T = 0, 3^+_{1,ms}$  state of odd-odd  $N = Z$   $^{58}\text{Cu}$* , A. Costin, N. Pietralla, T. Koike, C. Vaman, **T. Ahn**, G. Rainovski, Phys. Rev. C 72, 054305 (2005)

*Low-spin studies of the  $h_{11/2}h_{11/2}$  structure in  $^{134}\text{Pr}$* , S. P. Roberts, **T. Ahn**, K. Starosta, T. Koike, C. J. Chiara, C. Vaman, Phys. Rev. C 67, 057301 (2003)

## Conference Proceedings

*Progress on the Study of Nuclear States with Mixed Proton-Neutron Symmetry*, N. Pietralla, Th. Möller, **T. Ahn**, Ch. Bauer, L. Coquard, M. Danchev, K. A. Gladnishki, A. Krugmann, J. Leske, O. Möller, P. von Neumann-Cosel, V. Yu. Ponomarev, G. Rainovski, A. Scheikh Obeid, M. Scheck, Ch. Walz, J. Wambach, EJP (2012)

*The beauty of good data: Unveiling the traces of mixed symmetry*, N. Pietralla, **T. Ahn**, C. Bauer, L. Coquard, J. Leske, O. Möller, P. von Neumann-Cosel, G. Rainovski, C. Walz,

*High-precision excited state lifetime measurements in rare earth nuclei using LaBr<sub>3</sub>(Ce) detectors*, E. Williams, N. Cooper, M. Bonett-Matiz, V. Werner, J.-M. Regis, M. Rudigier, **T. Ahn**, V. Anagnostatou, Z. Berant, M. Bunce, M. Elvers, A. Heinz, G. Ilie, J. Jolie, D. Radeck, D. Savran, M. Smith,

*Excited State Lifetime Measurements in Rare Earth Nuclei with Fast Electronics*, V. Werner, N. Cooper, M. Bonett-Matiz, E. Williams, J.-M. Regis, M. Rudigier, **T. Ahn**, V. Anagnostatou, Z. Berant, M. Bunce, M. Elvers, A. Heinz, G. Ilie, J. Jolie, D. Radeck, D. Savran, M. Smith, International Nuclear Physics Conference 2010, Journal of Physics: Conference Series 312, 092062 (2011)

*Measurements of Picosecond Lifetimes in the Transitional Nucleus <sup>100</sup>Pd using the RDDM in Inverse Kinematics*, V. Anagnostatou, P. H. Regan, M. R. Bunce, D. McCarthy, V. Werner, **T. Ahn**, R. Casperson, R. Chevrier, N. Cooper, A. Heinz, G. Ilie, M. K. Smith, E. Williams, L. Bettermann, D. Radeck, C. W. Beausang, C. Boniwell, B. Pauerstein, Zakopane Conference in Nuclear Physics, Acta Physica Polonica B B42, 807 (2011)

*Chirality in the mass 80 region: <sup>79</sup>Kr*, T. Koike, S. Kinoshita, Y. Ma, Y. Miura, K. Shirotori, H. Tamura, M. Ukai, T. Suzuki, T. Endo, M. Fujita, Y. Miyashita, M. Ohguma, N. Sato, K. Shinozuka, M. Tateoka, T. Wakui, A. Yamazaki, T. Fukuchi, J. Timar, P. Joshi, **T. Ahn**, G. Rainovski, Y. Y. Fu, International Journal of Modern Physics E20, 520 (2011)

*Experimental studies of proton-neutron mixed symmetry states in the mass  $A \approx 130$  region*, G. Rainovski, N. Pietralla, J. Leske, **T. Ahn**, L. Coquard, C. Bauer, Th. Möller, K. Gladnishki, M. Danchev, A. Damyanova, D. Karagyozov, R. Topchiyska, C.J. Lister, R.V.F. Janssens, M.P. Carpenter, S. Zhu, Journal of Physics: Conference Series 205, 012039 (2010)

*Symmetries of Quadrupole-Collective Vibrational Motion in Transitional Even-Even <sup>124</sup>Xe and <sup>134</sup>Xe Nuclei*, N. Pietralla, L. Coquard, G. Rainovski, **T. Ahn**, C. Bauer, J. Leske, O. Möller, T. Möller, Proceedings of the 12<sup>th</sup> International Conference on Nuclear Reaction Mechanisms, Varenna Italy, CERN Proceedings 2010-001 (2010)

*Isvector Quadrupole Excitations in the Valence Shell of Vibrational Nuclei*, N. Pietralla, **T. Ahn**, M. Carpenter, L. Coquard, R.V. F. Janssens, K. Heyde, K. Lister, J. Leske, G. Rainovski, S. Zhu, Proc. Nuclear Structure and Dynamics '09, AIP Conf. Proc. 1165, 225 (2009)

*Evolution and shell stabilization of proton-neutron mixed symmetry states in the mass  $A \approx 130$  region*, G. Rainovski, N. Pietralla, J. Leske, **T. Ahn**, L. Coquard, C. Bauer, T. Möller, C. J. Lister, R. V. F. Janssens, M. P. Carpenter, S. Zhu, Proceedings of the International Conference Nuclear Structure and Related Topics, Dubna, Russia, 2, 90 (2009)

*Off-yrast collectivity of the  $O(6)$  like nucleus  $^{124}\text{Xe}$* , G. Rainovski, N. Pietralla, **T. Ahn**, L. Coquard, C.J. Lister, R.V. F. Janssens, M.P. Carpenter, S. Zhu, J. Jolie, Proc. 13th Intern. Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, AIP Conf. Proc. 1090, 263 (2009)

*Evolution of the one-phonon mixed-symmetry  $2^+_{1,ms}$  state in even-even Xe isotopes from inverse-kinematics Coulomb excitation*, L. Coquard, **T. Ahn**, G. Rainovski, N. Pietralla, J. Leske, O. Moller, T. Moller, M. Carpenter, R. V. F. Janssens, C. J. Lister, S. Zhu, L. Bettermann, W. Rother, Proc. 13th Intern. Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, AIP Conf. Proc. 1090, 140 (2009)

*Isvector Quadrupole Excitations in the Valence Shell studied in Projectile Coulomb Excitation*, N. Pietralla, G. Rainovski, **T. Ahn**, A. Costin, Nucl. Phys. A 788, 85c (2007)

*Sensitive Criterion For Chirality; Chiral Doublet Bands In  $^{104}\text{Rb}_{59}$* , T. Koike, K. Starosta, C. Vaman, **T. Ahn**, D. B. Fossan, R. M. Clark, M. Cromaz, I. Y. Lee, and A. O. Macchiavelli, AIP Conf. Proc. 656, 160 (2003)

## **Professional Activities**

Referee

Physical Review C, Experimental Nuclear Structure (Spring 2010 - present)

Scientific Writing Course

Yale University, New Haven, CT (Spring 2010)

Doctoral Training Program, Nuclear Structure

ECT\*, Trento, Italy, (Winter 2007 - Spring 2007)

RIA Summer School

Lawrence Berkeley National Laboratory, Berkeley, CA, (Summer 2005)

## **Outreach Activities**

NSCL Open House (Spring 2013)

## **Computer Skills**

Programming languages: C, C++, FORTRAN, Linux shell

Software for analysis of multi-event experiments: ROOT, MTSort

Software for analysis of gamma-ray spectroscopy data: Radware, Tv

General software tools: Mathematica, Maxima



## **Membership in Professional Societies**

American Physical Society

## **References**

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