Witold Nazarewicz
Department of Physics & Astronomy and FRIB/NSCL
Michigan State University

TALKS, COLLOQUIA, SEMINARS
(August 24, 2017)

Invited Talks at Meetings

1. *Experimental Workshop*, Niels Bohr Institute, Copenhagen, May 1983


5. *International Conference ‘Nuclear Structure, Reactions and Symmetries’*, Dubrownik, Jugoslavia, June 1986

6. *International Conference ‘Nuclear Structure Through Static and Dynamic Moments’*, Melbourne, Australia, August 1987


9. *International Workshop on Nuclear Structure of the Zr Region*, Bad Honnef, W. Germany, April 1988


11. *International Conference on Contemporary Topics in Nuclear Structure Physics*, Cocoyoc, Mexico, June 1988


13. *XX International Summer School on Nuclear Physics*, Mikolajki, Poland, September 1988

15. *Workshop on Nuclear Structure at High Spins*, Bad Honnef, West Germany, March 1989


17. *Nuclear Structure at High Spin*, Copenhagen, Denmark, October 1989


22. *First Lanzhou Summer School on Physics*, Lanzhou, China, May-June 1990


30. *NBI School on New Experimental Techniques in Gamma-Ray Spectroscopy*, NBI, Copenhagen, Denmark, May 1991


34. *International School of Nuclear Physics, 13th Course: 4π–High Resolution Gamma Ray Spectroscopy*, Erice, Italy, September 1991

35. *International Symposium on Reflections and Directions in Low Energy Heavy-Ion Physics*, Oak Ridge, USA, October 1991


37. *International Conference on Nuclear Structure at High Angular Momentum*, Ottawa, Canada, May 1992

38. 7th *Nordic Meeting on Nuclear Physics*, Vigsø, Denmark, August 1992


40. 21st *Int. Symposium on Rapidly Rotating Nuclei 1992*, Tokyo, Japan, October 1992


42. *Nuclear Physics of Our Times*, Sanibel Is., Florida, USA, November 1992


44. *Perspectives in Nuclear Physics*, Niels Bohr Institute, Copenhagen, Denmark, June 1993


47. The 23rd Summer School on Nuclear Physics, Piaski, Poland, August 1993
49. Eight Int. Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Fribourg, Switzerland, September 1993
50. Large Amplitude Collective Motion, Institute for Nuclear Theory, Seattle, October 1993
51. HRIBF Summer Program, ORNL, Oak Ridge, July 1994
52. Summer Institute in Theoretical Physics, Theoretical Approaches to Nuclear Structure, Kingston, Ontario, Canada, July 1994
53. Conference on Physics from Large Gamma-ray Detector Arrays, Berkeley, California, August 1994
54. Third Nordic Summer School in Nuclear Physics, Falsterbo, Sweden, August 1994
56. XXIX Zakopane School of Physics: Trends in Nuclear Physics, Zakopane, Poland, September 1994
57. CAM’94 Physics Meeting of American, Canadian, and Mexican Physical Societies, Cancun, Mexico, September 26-30, 1994
58. Research Opportunities with Secondary Beams at ATLAS, Argonne National Laboratory, January 13-14, 1995
60. Data Analysis School, Niels Bohr Institute, Denmark, August 15-16, 1995
61. High Angular Momentum Phenomena Workshop, Piaski, Poland, August 23-26, 1995
62. XXIV Mazurian Lakes School of Physics, Piaski, Poland, August 27 - September 3, 1995

63. Topical Workshop on Electron Spectroscopy in Actinides, Warsaw, Poland, September 4-6, 1995

64. Workshop on Structure far from Stability and Astrophysics with SPIRAL, GANIL, France, September 11-12, 1995

65. Workshop on Gammasphere Physics, LBL, California, December 1-2, 1995


67. Symposium on Research with Radioactive Nuclear Beams, PACIFICHEM’95, December 20-22, 1995 Honolulu, Hawai'i

68. PEX Workshop, NBI, May 6-7, 1996, Risoe, Denmark.

69. The Nordita study weekend on Euroball physics, NBI, May 9-11, 1996, Copenhagen, Denmark.

70. ETC# Workshop on Structure of Nuclei far from Beta Stability, May 20-31, 1996, Trento.


72. Midsummer Workshop on Nuclear Physics, June 26-29, 1996, Jyväskylä, Finland.


74. International School of Nuclear Physics on 4π High-Resolution Gamma Ray Spectroscopy and Nuclear Structure, September 16-24, 1996, Erice, Italy.

75. 1996 Fall Meeting of the APS Division of Nuclear Physics, Plenary talk, October 2-5, 1996, Cambridge, Massachusetts, USA.

76. Holifield Radioactive Ion Beam Facility Dedication, December 13, 1996, Oak Ridge, Tennessee, USA.
77. Institute for Nuclear Theory program on Tunneling in Complex Systems, INT-97-1, March 8-14, 1997, Seattle, Washington, USA.

78. Workshop on the Physics using Compound-Nucleus Separators, April 10-12, 1997, Lawrence Berkeley National Laboratory, Berkeley, California, USA.


81. Sixth International Conference on Nucleus-Nucleus Collisions, June 2-6, 1997, Gatlinburg, Tennessee, USA.

82. Workshop on the Science for an Advanced ISOL Facility, July 30 - August 1, 1997, Columbus, Ohio, USA.

83. Ninth Annual NSF-DOE Summer School, August 4-19, 1997, Yale University, New Haven, Connecticut, USA.

84. XXV Mazurian Lakes School of Physics, August 27 - September 6, 1997, Piaski, Poland.

85. From Polonium and Radium to Exotic and Superheavy Nuclides, September 6, 1997, Warsaw, Poland.

86. Ninth National Postgraduate Nuclear Physics Summer, August 31 - September 13, 1997, Nottingham, UK.


88. Frontiers in Nuclear Physics, 11th Summer School, Australian National University, 12-30 January 1998, Canberra, Australia.

89. Joint Study Weekend HALO’98, 3-5 April 1998, Lisbon, Portugal


91. ANL Theory Institute, August 3-7, 1998, Argonne, USA.

94. 6th RIKEN-Workshop on Physics of RI-Beam Factory, November 16-18, 1998, RIKEN, Japan (opening talk + 5 shorter talks)
95. NBI/Lund Workshop, December 14, 1998, Risø, Denmark
96. IX Escola de Verao “Jorge André Swieca”, University of Sao Paulo, January 26-31, 1999, Sao Paulo, Brazil
97. Centennial Meeting of APS, March 21-24, 1999, Atlanta, Georgia, USA
98. Nuclear Structure Physics Near the Coulomb Barrier: Into the 21st Century, June 10-12, 1999, Yale University, New Haven, USA
101. 9th Jyväskylä International Summer School, August 2-7, 1999, Jyväskylä, Finland
102. XXVI Mazurian Lakes School of Physics, 1-11 September 1999, Krzyż, Poland
104. TRIUMF-ISAC Scientific Symposium, December 12, 1999, Vancouver, B.C., Canada.
105. RNB2000 Conference, April 2-8, 2000, Divonne, France.
107. BOLOGNA 2000 - Structure of the Nucleus at the Dawn of the Century, May 29 - June 3, 2000, Bologna, Italy
108. VII Hispalensis International Summer School, June 11-23, 2000, Alcalá de Guadaira, Spain

110. *International School on Nuclear Physics; 22nd Course: Radioactive Beams for Nuclear and Astro Physics*, September 16 - 24, 2000, Erice, Italy

111. *Euro Summer School on Exotic Beams*, August 31 - September 8, 2000, Leuven, Belgium

112. *2000 Fall Meeting of the APS Division of Nuclear Physics*, RIA Workshop, October 4-7, 2000, Williamsburg, Virginia, USA.

113. *GSI Workshop on its Future Facility*, October 18-20, 2000, Darmstadt, Germany

114. *Town Meeting on Nuclear Structure*, November 9-12, 2000, Oakland, California


117. *High-Spin Physics 2001*, Feb. 6-10, 2001, Warsaw, Poland

118. *High-Spin Physics 2001*, Feb. 6-10, 2001, Warsaw, Poland


122. “Rare Isotope Accelerator, Theoretical Challenges”, *YKIS01 Physics of Unstable Nuclei*, November 5-10, 2001, Kyoto, Japan


141. “Remarks by the Chair of the RIA Steering Committee”, *RIA Facility Workshop*, NSCL/MSU, East Lansing, March 9-13, 2004


149. “Science of Rare Isotope Accelerator (RIA) and the Project Status”, Particle Accelerator Conference PAC’05, Knoxville, TN, May 16-20, 2005.


151. “Concluding Remarks”, YITP Workshop on New Developments in Nuclear Self-Consistent Mean-Field Theories Yukawa Institute for Theoretical Physics, Kyoto, Japan May 30 - June 1, 2005.


161. “Modern Approaches to Fission”, Workshop on Nuclear Physics and Related Computational Science R&D for Advanced Fuel Cycles, Bethesda, Maryland, August 10-12, 2006


175. “Designer nuclei: connecting the femtoworld with the universe”, Carnegie Public Lecture, University of the West of Scotland, Paisley, April 28, 2008.


183. “Nuclei as open quantum many body systems” (six lectures), 20th Chris Engelbrecht Summer School in Theoretical Physics, National Institute for Theoretical Physics, Stellenbosch, Western Cape, South Africa, 1928 January 2009.

185. “Discussion and concluding remarks”, Workshop on Structure and astrophysics from nuclear reactions with exotic nuclei, University of the West of Scotland, Paisley, July 15 2009.


194. “Concluding Remarks”, W. Nazarewicz, One-day Workshop on Recent Results in Nuclear Physics, UWS, Paisley, June 9, 2010.


Nuclei”, University of Aizu (Aizu-Wakamatsu, Japan), November 10-13, 2010


206. “Theoretical nuclear physics” (4 lectures), The 16th UK Nuclear Physics Postgraduate Summer School, St Andrews, Scotland, UK, Sep. 3-6, 2011.


211. “Information content of a nuclear observable and systematic and statistical errors of nuclear DFT”, Inter-collaboration meeting, CEA Saclay, France, April 10-11, 2012.


219. “SHE: Theoretical perspective”, workshop focused on future studies of super-heavy nuclei at the SHE Factory, TAMU, College Station, TX, March 12-13, 2013.


228. “Information content of a nuclear observable”, JUSTIPEN-JUSEIPEN Workshop, RIKEN, Wako-shi, Japan, Dec. 9, 2013


239. “Superheavy Nuclei: Theoretical Challenges”, Super Heavy Nuclei Symposium, Texas A & M University, College Station, TX, March 31, 2015.


245. “Computational nuclear structure in the eve of exascale,” Symposium on Quarks to Universe in Computational Science (QUCS 2015), Nara, Japan, Nov. 4-8, 2015.


259. “Uncertainty Quantification and Bayesian Model Averaging”, DOE topical collaboration ‘Nuclear Theory for Double-Beta Decay and Fundamental Symmetries’ meeting, ACFI, UMass Amherst, February 3-4, 2017

260. “At the End of the Nuclear Chart”, International Festive Colloquium Dedicated to the naming of the New Elements with Atomic Numbers 115, 117 and 118, RAS Central Club of Scientists, Moscow, Russia, March 2, 2017.


263. “Structure of rare isotopes,”, MINIBALL Workshop, University of York, UK, May 9, 2017


Other Conference Talks

1. *XIX Winter School on Physics, ‘Selected Topics in Nuclear Structure’,* Zakopane, Poland, April 1984

2. *XXI Winter School on Physics*, Zakopane, Poland, April 1986 (2 talks)

3. *XXII Winter School on Physics*, Zakopane, Poland, May 1987


5. *1996 Fall Meeting of the APS Division of Nuclear Physics*, October 2-5, 1996, Cambridge, Massachusetts, USA.


7. “Selfconsistent Barrier Calculations”, W. Nazarewicz, *International Workshop on Theoretical Description of the Nuclear Large Amplitude Collective Motion (with a focus on fission)*, Joint Institute for Heavy Ion Research, Oak Ridge, March 30-31, 2005


11. “Microscopic theories for LACM, including fission,” W. Nazarewicz, DNP Town Meeting on Nuclear Astrophysics/Study of Nuclei, Chicago, IL, January 19-21, 2007


Lectures, Seminars, and Colloquia

1976  Warsaw University

1977  Warsaw University of Technology

1978  Warsaw University

1979  Warsaw University of Technology

1980  Warsaw University
       Warsaw University of Technology

1981  Institute for Nuclear Research, Świerk
       Warsaw University

1982  Warsaw University of Technology
       University of Lund, Sweden
       University of Lund, Sweden

1983  University of Lund, Sweden
       University of Lund, Sweden
       Max Planck Institute, Heidelberg, W. Germany
       GSI, Darmstadt, W. Germany
       TH Darmstadt, W. Germany
       University of Göttingen, W. Germany
       University of Lund, Sweden

1984  University of Lund, Sweden
       Warsaw University of Technology
       Niels Bohr Institute, Copenhagen, Denmark
       Niels Bohr Institute, Copenhagen, Denmark
       Niels Bohr Institute, Copenhagen, Denmark
       University of Lund, Sweden
       University of Göttingen, W. Germany
       GSI, Darmstadt, W. Germany
       XIX Winter School on Physics, Zakopane, Poland
       University of Göttingen, W. Germany
       University of Göttingen, W. Germany
       University of Göttingen, W. Germany
       Niels Bohr Institute, Copenhagen, Denmark
1985  University of Bonn, W. Germany  
Yale University, New Haven, Connecticut, USA  
ORNL, Oak Ridge, Tennessee, USA  
Joint Institute for Heavy Ion Research, Oak Ridge, TN, USA  
Florida State University, Tallahassee, USA  
Vanderbilt University, Nashville, Tennessee, USA  
Warsaw University  
Warsaw University  

1986  Warsaw University of Technology  
Warsaw University  
University of Lund, Sweden  
Universytet Tennessee, Knoxville, USA  
Universytet Tennessee, Knoxville, USA  
Florida State University, Tallahassee, USA  
Argonne National Laboratory, Illinois, USA  
Joint Institute for Heavy Ion Research, Oak Ridge, TN, USA  
Florida State University, Tallahassee, USA  
XXI Winter School on Physics, Zakopane, Poland  
XXI Winter School on Physics, Zakopane, Poland  
Warsaw University  
Warsaw University  
Warsaw University  

1987  Warsaw University of Technology  
Warsaw University  
Niels Bohr Institute, Copenhagen, Denmark  
University of Lund, Sweden  
KFA Jülich, W. Germany  
University of Bonn, W. Germany  
University of Cologne, W. Germany  
Max Planck I., Heidelberg, W. Germany  
Australian National U., Camberra, Australia  
Australian National U., Camberra, Australia  
XXII Winter School on Physics, Zakopane, Poland  
International Conference on Nuclear Shapes, Crete, Greece  
Warsaw University  
Warsaw University
Warsaw University

1988  Warsaw University
      Warsaw University of Technology
      University of Cologne, W. Germany
      Université Libre, Brussels, Belgium
      Warsaw University

1989  Weizmann Institute, Rehovot, Israel
      Warsaw University
      UMCS Lublin
      TH Munich, Garching, W. Germany
      Warsaw University of Technology
      University of Lund, Sweden
      Warsaw University of Technology
      Warsaw University
      Warsaw University
      Warsaw University

1990  University of Lund, Sweden
      University of Manchester, England
      Warsaw University
      Institute for Modern Physics, Academia Sinica, Lanzhou, China
      Atomic Energy Institute, Academia Sinica, Beijing, China
      University of Liverpool, England
      Warsaw University

1991  Oak Ridge National Laboratory, USA
      Australian National University, Camberra, Australia
      Vanderbilt University, Nashville, TN, USA
      Oak Ridge National Laboratory, USA
      Joint Institute for Heavy Ion Research, Oak Ridge, TN, USA
      Oak Ridge National Laboratory, USA
      University of Lund, Sweden
      Institute of Nuclear Physics, Orsay, France
      Oak Ridge National Laboratory, USA
      Florida State University, Tallahassee, USA
      University of Illinois, Urbana, USA
      University of New York, Stony Brook, USA
New York University, New York, USA
Michigan State University, East Lansing, USA

1992  Argonne National Laboratory, Argonne, USA
       University of Notre Dame, Notre Dame, USA
       Oak Ridge National Laboratory, USA
       California Institute of Technology, Pasadena, USA
       Warsaw University
       Kyoto University, Japan
       Tokyo University, Japan
       Kyoto University, Japan
       Oak Ridge National Laboratory, USA
       Berkeley National Laboratory, USA

1993  Argonne National Laboratory, Argonne, USA
       University of Frankfurt, Germany
       University of Liverpool, UK
       Oak Ridge National Laboratory, USA
       Oak Ridge National Laboratory, USA
       Louisiana State University, USA

1994  Niels Bohr Institute, Copenhagen
       Oak Ridge National Laboratory, USA
       Michigan State University, USA
       University of Tennessee, USA
       Oak Ridge National Laboratory, USA
       Argonne National Laboratory, Argonne, USA
       Berkeley National Laboratory, Berkeley, USA
       University of Rochester, Rochester, USA
       University of Tennessee, USA
       Warsaw University
       Warsaw University of Technology

1995  University of Liverpool, England
       Warsaw University
       Warsaw University
       Warsaw University of Technology
       TRIUMF, Vancouver, Canada
       North Carolina State University
       Oak Ridge National Laboratory, USA
GSI Darmstadt, Germany  
University of Notre Dame, Notre Dame, USA  
California Institute of Technology, Pasadena, USA

1996  Michigan State University, East Lansing  
Yale University, New Haven  
Yale University, New Haven  
University of Tennessee, Knoxville  
NORDITA, Copenhagen, Denmark

1997  Lawrence Berkeley National Laboratory, California  
Purdue University, Lafayette, USA

1998  Yale University, New Haven  
UMCS, Lublin, Poland  
Texas A&M, TANU, College Station, Texas  
Yukawa Institute, Kyoto, Japan  
Kyoto University, Kyoto, Japan

SUNY, Stony Brook, NY  
ORNL, Tennessee  
GSI, Darmstadt, Germany  
University of Tennessee, Knoxville  
University of Tennessee, Knoxville  
University of Tennessee, Knoxville  
ULB Brussels, Belgium

2000  ETH Zürich, Switzerland  
University of Milan, Milan, Italy  
ETC* Trento, Italy  
Jefferson Laboratory, Newport News, VA  
University of Tennessee, Knoxville

2001  Warsaw University of Technology, Warsaw, Poland  
Indiana University, Bloomington  
Niels Bohr Institute, Copenhagen  
Niels Bohr Institute, Copenhagen

2002  GANIL, Caen, France  
Warsaw University
2003  Texas A&M University, USA
      Argonne National Laboratory, USA
      Jefferson Lab, USA

2004  Warsaw University, Poland
      Warsaw University, Poland
      WUSL, St. Louis, MO
      Oak Ridge National Laboratory, USA
      University of Tennessee, USA

2005  Warsaw University, Poland
      University of Tokyo, Japan
      University of Tennessee, Knoxville

2006  Warsaw University, Poland
      Institute for Nuclear Physics, Cracow, Poland
      Yale University
      Institute of Physics, London
      LNS, MIT, Cambridge, MA
      West High School, Knoxville

2007  ANL, Physics Colloquium
      University of Milan, Italy
      University of Milan, Italy (Physics Colloquium)
      Warsaw University, Poland (L. Infeld Colloquium)
      GANIL, Caen, France
      GANIL, Caen, France
      LLNL Seminar, Livermore, CA
      JUSTIPEN Seminar, Wako, Japan
      JUSTIPEN Seminar, Wako, Japan

2008  SSAA Seminar, NNSA, Washington DC
      University of the West of Scotland, Paisley, UK
      University of Birmingham, UK
      University of Birmingham, UK
      University of Liverpool, UK
      University of Liverpool, UK
      University of Surrey, UK
      University of Surrey, UK
      Warsaw University, Poland
      University of York, UK
University of York, UK
University of the West of Scotland, Paisley, UK
University of Jyvaskyla
ORNL, Physics Division
University of Jyvaskyla (Physics Colloquium)
Rutgers University, NJ
Rutgers University, NJ (Physics Colloquium)
University of Tennessee (Physics Colloquium)

2009 GANIL, Caen, France
University of the West of Scotland, Paisley, UK
University of the West of Scotland, Paisley, UK
SUPA invited lecture, Scotland, UK
Peking University (special lecture), Beijing, China
University of Delaware, DE (Physics Colloquium)
UT Science Forum. Knoxville, TN
Warsaw Institute of Technology (Physics Colloquium)
Warsaw University, Poland
Institute for Nuclear Physics, Cracow, Poland

2010 KTH, Stockholm, Sweden (Physics Colloquium)
Ohio State University, Columbus (Physics Colloquium)
Texas A&M University, Commerce, TX (Physics Colloquium)
University of the West of Scotland, Paisley, UK
University of the West of Scotland, Paisley, UK
University of the West of Scotland, Paisley, UK
University of the West of Scotland, Paisley, UK
University of Tennessee, Knoxville
Saha Institute of Nuclear Physics, Kolkata, India (Colloquium)
GANIL, Caen, France

2011 LBNL, Nuclear Science Division (Physics Colloquium)
BNL, Upton, NY, Physics Colloquium
BNL, Upton, NY, Physics Theory Seminar
Warsaw University, IFT Symposium, Warsaw, Poland
Warsaw University, Nuclear Physics Seminar, Warsaw, Poland

2012 University of Massachusetts, Amherst, MA, Physics Colloquium
Ohio University, Athens, OH, Physics Colloquium
Technische Universität Darmstadt, Nuclear Physics Seminar, Darmstadt, Germany
Carnegie Mellon University, Pittsburgh, PA
Jefferson Lab, Newport News, VA (Physics Colloquium)
Argonne National Lab, IL, Physics Seminar

2013 Warsaw University, Nuclear Physics Seminar, Warsaw, Poland
Warsaw University, Physics Colloquium, Warsaw, Poland
Michigan State University, Physics Colloquium, East Lansing, MI
University of North Carolina, Chapel Hill, NC, Physics Colloquium
ITP/CAS Beijing, China, Colloquium

2014 MIT Laboratory of Nuclear Science, MIT, Cambridge, Physics Colloquium
University of Tennessee, Knoxville
University of Alabama, Tuscaloosa, Physics Colloquium
GSI, Darmstadt, Germany, Physics Colloquium
TUD, Darmstadt, Germany, Physics seminar
TRIUMF, Vancouver, BC, Canada, Physics seminar
University of Victoria, Victoria, BC, Canada, Physics Colloquium
University of British Colombia, Vancouver, BC, Canada, Physics Colloquium
Simon Fraser University, Burnaby, BC, Canada, Physics Colloquium

2015 NSCL, Michigan State University, Staff Informational Talk
JINA, Michigan State University, Seminar
Society of Physics Students, Michigan State University, Seminar
University of the West of Scotland, Paisley, UK, Lecture
University of the West of Scotland, Paisley, UK, Lecture
University of the West of Scotland, Paisley, UK, Lecture
University of the West of Scotland, Paisley, UK, Lecture

2016 University of Michigan (2016 Helmut W. Baer Lecture)
University of Kansas, Lawrence, KS, Physics Colloquium

2017 Michigan State University (Science Festival)
University of York, York, UK, Physics Colloquium
University of York, York, UK, Physics Seminar