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

TALKS, COLLOQUIA, SEMINARS
(March 9, 2019)

Invited Talks at Meetings

1. *Experimental Workshop*, Niels Bohr Institute, Copenhagen, May 1983
5. *International Conference ‘Nuclear Structure, Reactions and Symmetries’*, Dubrownik, Yugoslavia, 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


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


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


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


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, Hawaii

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.


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


74. International School of Nuclear Physics on \(4\pi\) 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, Krzyże, 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

115. Nuclear Structure for the XXI Century, INT-00-3 Program, Nov. 13-17, 2000, Seattle, Washington

116. Nuclear Structure for the XXI Century, INT-00-3 Program, Dec. 4-8, 2000, Seattle, Washington

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

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


121. “Concluding Remarks”, Physics and Chemistry of Superheavy Elements, ECT*, July 9-14, 2001, Trento, Italy

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


135. “Structure of Heavy Nuclei”, Lectures series at ECT* Doctoral Training Programme, July 14-18, ECT*, Trento, Italy

136. “Proton Emitters - Theoretical Developments”, HRIBF workshop on Decay Spectroscopy, August 18-19, Oak Ridge, TN


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.


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.


“Frontiers in Low-Energy Nuclear Physics - selected topics”, XXXIII Mazurian Lakes Conference on Physics, Piaski, Poland, September 1-7, 2013

“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.


266. “Prospects for breakthroughs in understanding nuclei”, XXXV Mazurian Lakes Conference on Physics, Piaski, Poland, September 3-9, 2017.


272. “(i) Fermion localization in nuclear DFT and TDDFT; (ii) Bayesian approach to model-based extrapolations”, 2018 NUCLEI Collaboration Meeting Knoxville, TN, May 29-June 1, 2018.

274. “Facility for Rare Isotope Beams: The Path to Scientific Discovery (a 30,000-foot view)”, Plenary talk, SORMA XVII, Ann Arbor, MI, June 11-14, 2018.

275. “(i) Fermion localization in nuclear DFT and TDDFT; (ii) and Bayesian approach to model-based extrapolations”, Nuclear Structure and Re- actions for the 2020s, GANIL, Caen, France, July 2-6, 2018.


278. “Extrapolations with Bayesian machine learning”, ISNET-6, TU Darm- stadt, 8-12 October 2018.


282. “Neutron drip line in the Ca region from Bayesian machine learning”, Tsukuba-CCS workshop on microscopic theories of nuclear structure and dynamics, Center for Computational Sciences, University of Tsukuba, Tsukuba, Japan, December 10-12, 2018.

283. “Isospin mixing in nuclei”, Top Row CKM Unitarity Workshop, Texas A&M University, College Station, Texas, January 7-8 2019.

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 Librè, 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 Jyväskyla
       ORNL, Physics Division
ORNL, Physics Division
University of Jyväskylä (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 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

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  
Peking University, Beijing, China, Physics Seminar  
Michigan State University, CMSE Seminar  
Indiana University, Bloomington, IN, Physics Colloquium

2018  Argonne National Laboratory, Physics Division Colloquium  
Michigan State University (Science Festival)  
Michigan State University (LQCD Symposium)

2019  VECC, Kolkata, India, Physics Colloquium  
SINP, Kolkata, India, Physics Colloquium