

Invited International Talks

- 227 Blackboard Seminar @ KITP**
Santa Barbara (USA), 10 October 2016
“Controlling and Exploring Quantum Matter Using Ultracold Atoms in Optical Lattices”
- 226 Public Lecture @ KITP**
Santa Barbara (USA), 29 September 2016
“Realizing Richard Feynman’s Dream of a Quantum Simulator”
- 225 Workshop on Many-body Dynamics and Open Quantum Systems (DOQS) 2016**
Glasgow (UK), 30 August – 2 September 2016
“Fermionic Quantum Gas Microscopes and MBL with Ultracold Atoms”
- 224 European Science Open Forum (ESOF) 2016**
Manchester (UK), 25 July 2016
“Realizing Richard Feynman’s Dream of a Quantum Simulator”
- 223 Varenna Sumer School – Quantum Simulations**
Varenna (Italy), 21-23 June 2016
“Probing and Controlling Quantum Matter in Optical Lattices”
- 222 Les Houches Summer School – Current Trends in Atomic Physics**
Les Houches (France), 15-19 July 2016
“Probing and Controlling Quantum Matter in Optical Lattices”
- 221 Quantum Matter Workshop**
Benasque (Spain), 29 June – 3 July 2016
“Many-Body Localization from an Experimental Ultracold Atom Perspective”
- 220 Itzykson Conference on Dynamics & Disorder**
IPhT CEA-Saclay (France), 13-15 June 2016
“Many-Body Localization from an Experimental Ultracold Atom Perspective”
- 219 Quantum Science, Matter & Engineering Symposium**
Technion, Haifa (Israel), 1-2 June 2016
“Probing and Controlling Non-Equilibrium Dynamics using Ultracold Atoms”
- 218 Bar Ilan University - Physics Colloquium**
Ramat Gan (Israel), 30 May 2016
“Probing and Controlling Non-Equilibrium Dynamics using Ultracold Atoms”

- 217 APS March Meeting Focus Session – Recent Advances in Many-Body Localization**
Baltimore (USA), 18 March 2016
“Many-body localization of interacting fermions in quasi-random optical lattices”
- 216 Gordon Research Conference – Ultrafast Phenomena in Cooperative Systems**
Il Ciocco (Italy), 17-19 February 2016
“Probing and Controlling Non-Equilibrium Dynamics using Ultracold Atoms”
- 215 Solvay Workshop**
UBL Brussels (Belgium), 9-11 February 2016
“Many-Body Localization from an Experimental Ultracold Atom Perspective”
- 214 Israeli Physical Society Meeting – Keynote Talk**
Bar Ilan University (Israel), 13 December 2015
“Probing and Controlling Quantum Matter at the Single Atom Level”
- 213 Program on Many-Body Localization – Invited Seminar**
KITP (USA), 2 December 2015
“Probing Many-Body Localization Using Ultracold Atoms”
- 212 Alba Nova and Nordita – Physics Colloquium**
AlbaNova University Center, Stockholm Center for Physics, Astronomy and Biotechnology (Sweden), 26 November 2015
“Probing and Controlling Quantum Matter at the Single Atom Level”
- 211 University of Maryland – Physics Colloquium**
University of Maryland (USA), 3 November 2015
“Probing and Controlling Quantum Matter at the Single Atom Level”
- 210 Joint Quantum Institute (JQI) – Seminar**
Maryland (USA), 2 November 2015
“From Many-Body Localization to Topology – New Frontiers for Ultracold Quantum Gases”
- 209 Bose-Einstein Condensation 2015 – Frontiers in Quantum Gases**
Sant Feliu de Guixols (Spain), 5-11 September 2015
“From Many-Body Localisation to Thouless Quantum Pumps - New Frontiers for Ultracold Quantum Gases”
- 208 Workshop on Interacting Fermions: Precision Theory and Experiment**
Trieste (Italy), 6-10 July 2015
“From Many-Body Localization to Long-Range Interacting Rydberg Gases - New Frontiers for Ultracold Quantum Gases”

- 207 22nd International Conference on Laser Spectroscopy**
Singapore, 28 June - 3 July 2015
“From Many-Body Localization to Novel Rydberg Quantum Magnets - New Frontiers for Ultracold Quantum Gases”
- 206 Quantum Frontiers Distinguished Lecture**
Waterloo (Canada), 24 June 2015
“From Topological Bloch Bands to Long-Range Interacting Rydberg Gases - New Frontiers for Ultracold Atoms”
- 205 University of Strathclyde, Department of Physics, Optics Division seminars**
Glasgow (UK), 1 June 2015
“Probing and Controlling Ultracold Quantum Gases – from Single Atoms to Rydberg Dressing”
- 204 CLEO: 2015 - Laser Science to Photonic Applications**
San Jose (USA), 10-15 May 2015
“Probing and Controlling Quantum Matter in Crystals of Light”
- 203 Topological and Strongly Correlated Phases in Cold Atoms**
Princeton (USA), 30 April - 1 May 2015
“From Many-Body Localization to Novel Quantum Magnets: New Frontiers for Ultracold Gases”
- 202 Physics Colloquium – Caltech**
Pasadena (USA), 12 February 2015
“Controlling and Exploring Quantum Matter at the Single Atom Level”
- 201 Physics Colloquium – Oxford University**
Oxford (UK), 6 February 2015
“Probing and Controlling Quantum Matter in Artificial Crystals of Light”
- 200 Fundamental physics with Light & Atoms**
Turin (Italy), 27 January 2015
“From topological Bloch bands to quantum magnetism with Rydberg atoms - New perspectives for ultracold gases”
- 199 Academia de Lincei – Challenges in Crystallography**
Rome (Italy), 13-14 October 2014
“Probing and Controlling Quantum Matter in Artificial Crystals of Light”
- 198 Okinawa School in Physics – 3 Lectures**
Okinawa (Japan), 15-18 September 2014
“Probing and Controlling Quantum Matter in Optical Lattices”

- 197 Erwin Schrödinger Institut – Topological Phases of Matter**
Vienna (Austria), 11 September 2014
“Realizing and Controlling Topological Bloch Bands in Optical Lattices”
- 196 Aspen Center for Physics – Colloquium**
Aspen (USA), 4 September 2014
“Controlling and Exploring Quantum Matter at the Single Atom Level”
- 195 Gordon Research Conference on Quantum Science**
Easton (USA), 27-31 July 2014
“Probing and Controlling Topological Bloch Bands”
- 194 Enrico Fermi Summer School on Cold Quantum Gases**
Varenna (Italy), 7-17 July 2014
“Probing and Controlling Quantum Matter in Optical Lattices”
(three course lecture series)
- 193 Non-Equilibrium Phenomena in Condensed Matter and String Theory – ICTP**
Trieste (Italy), 30 June – 2 July 2014
“Probing Non-Equilibrium Quantum Dynamics at the Single Atom Level”
- 192 Quantum Matter Workshop – Benasque Physics Center**
Benasque (Spain), 16-27 June 2014
“From Topological Bloch Bands to Long Range Interacting Rydberg Atoms”
- 191 Dynamics and Transport in Quantum Matter – Technion**
Haifa (Israel), 6-10 June 2014
“From Topological Bloch Bands to Long Range Interacting Rydberg Atoms”
- 190 BEC 2014 Workshop**
Levico (Italy), 29 May 2014
“Engineering and Probing Topological Bloch Bands in Optical Lattices”
- 189 PLANCKS Symposium – Beatrix Theatre Utrecht**
Utrecht (Netherlands), 23 May 2014
“Controlling and Exploring Quantum Matter at the Single-Atom Level”
(Symposium speaker together with G. ‘t Hooft & S. Hawking)
- 188 Collège de France Colloquium – Collège de France**
Paris (France), 14 May 2014
“Engineering and Probing Topological Bloch Bands in Optical Lattices”
- 187 Milan Physics Colloquium – Milan University**
Milan (Italy), 15 April 2014
“Controlling and Exploring Quantum Matter at the Single Atom Level”

- 186 Condensed Matter Physics Seminar – Harvard University**
Cambridge (USA), 10 April 2014
“From Topological Bloch Bands to Long-Range Interacting Rydberg Crystals”
- 185 Vernon Hughes Memorial Lecture – Yale University**
New Haven (USA), 24 March 2014
“Controlling and Exploring Quantum Matter at the Single Atom Level”
- 184 Workshop on New Perspectives on Thermalization - Aspen Physics Center**
Aspen (USA), 17-21 March 2014
“Probing Non-Equilibrium Quantum Dynamics at the Single Atom Level”
- 183 Frontiers in the Quantum World Symposium**
Florence (Italy), 10 March 2014
“From Laser Assisted Tunneling to Rydberg Crystals”
- 182 Einstein Colloquium – Weizmann Institute of Science**
Rehovot (Israel), 23 January 2014
„Controlling and Exploring Quantum Matter at the Single Atom Level“
- 181 Physics Colloquium – University of Basel**
Basel (Switzerland), 22 November 2013
„Controlling and Exploring Quantum Matter at the Single Atom Level“
- 180 Physics Colloquium@ MIT**
Cambridge (USA), 14 November 2013
„Controlling and Exploring Quantum Matter at the Single Atom Level“
- 179 Innsbruck Physics Lecture**
Innsbruck (Austria), 22 October 2013
“Controlling and Exploring Quantum Matter at the Single Atom Level”
- 178 The Quantum Century: 100 Years of the Bohr Atom**
Copenhagen (Denmark), 3-4 October 2013
“Probing and Exploring at the Single Atom Level”
- 177 International BEC Conference**
San Feliu de Guixol (Spain), 8-12 September 2013
“Probing and Controlling Quantum Matter in New Parameter Regimes”
- 176 Frontiers of Quantum Physics and Quantum Information**
ICFO Barcelona (Spain), 25-27 July 2013
“Ultracold Quantum Gases in Optical Lattices”
- 175 International Conference on Quantum Technologies**
Moscow (Russia), 20-24 July 2013
“From Spin Dynamics to Topological Bloch Bands with Ultracold Atoms”

- 174 Synthetic Gauge Fields for Atoms and Photons**
Trento (Italy), 8-12 July 2013
“Probing Quantum Matter in Topological Bloch Bands”
- 173 QIPC Conference**
Florence (Italy), 1-5 July 2013
“Quantum Matter under the Microscope”
- 172 Gordon Conference on Atomic Physics**
Newport (USA), 24-28 June 2013
“Realizing Quantum Matter with Ultracold Atoms and Ions”
- 171 50 Years Hubbard Model**
University College London (UK), 18 June 2013
“Probing Quantum Matter at the Single Atom Level”
- 171 Quantum Optics 8**
Jachranka (Poland), 30 May 2013
“Exploring Quantum Matter Using Ultracold Atoms in Optical Lattices”
- 170 IQEC/CLEO 2013 – Keynote Talk**
Munich (Germany), 14 May 2013
“Quantum Simulations Using Ultracold Atoms”
- 169 Workshop on New Magnetic Field Frontiers**
Les Houches (France), 10 May 2013
“Quantum Magnetism Using Ultracold Atoms in Optical Lattices”
- 168 Workshop on Light Matter Interactions**
Ein Gedi (Israel), 22-25 April 2013
“Probing Non-Equilibrium Dynamics Using Ultracold Atoms in Optical Lattices”
- 167 Collège de France**
Paris (France), 2 April 2013
“Probing Quantum Matter Using Ultracold Quantum Gases”
- 166 Solvay Colloquium – ULB Brussels**
Brussels (Belgium), 26 March 2013
“Probing and Controlling Quantum Matter at the Single Atom Level”
- 165 Anderson-Higgs Focus Session – APS March Meeting 2013**
Baltimore (USA), 18-22 March 2013
“The ‘Higgs’ Amplitude Mode at the Two-Dimensional Superfluid to Mott Insulator Transition”
- 164 Physics Days – Finnish Physical Society (Plenary Talk)**
Espoo (Finland), 15 March 2013
“Probing and Controlling Ultracold Quantum Matter”

- 163 IST Austria – Colloquium**
Klosterneuburg (Austria), 25 February 2013
“Probing and Controlling Ultracold Quantum Matter”
- 162 FINESSE 2013**
Queenstown (New Zealand), 17-20 February 2013
“Probing Non-Equilibrium Dynamics Using Ultracold Quantum Gases”
- 161 NORDITA Workshop – Pushing the Boundaries with Cold Atoms**
Stockholm (Sweden), 6-8 February 2013
“New Frontiers with Ultracold Quantum Gases in Optical Lattices”
- 160 Physics Colloquium at the Technion**
Haifa (Israel), 28 January 2013
“Probing Quantum Matter under Extreme Conditions”
- 159 Physics@FOM, Focus Session “From Ultracold to Ultrahot”**
Veldhoven (Netherlands), 23 January 2013
“Probing Quantum Matter under Extreme Conditions”
- 158 Quantum Information Meets Statistical Mechanics (QISM)**
Innsbruck (Austria), 22-25 September 2012
“Ultracold Quantum Gases under Extreme Conditions”
- 157 Nanosciences: Soft, Solid, Alive and Kicking**
Venice (Italy), 17-21 September 2012
“Exploring Quantum Matter using Ultracold Quantum Gases”
- 156 Dynamics and Thermodynamics in Isolated Quantum Systems - KITP**
Santa Barbara (USA), 20-24 August 2012
“Probing Non-Equilibrium Dynamics Using Ultracold Quantum Gases in Optical Lattices”
- 155 Gordon Research Conference (GRC) on Quantum Science**
Easton (USA), 15-17 August 2012
“Exploring Static and Dynamical Properties of Quantum Gases at the Single Atom Level”
- 154 Les Houches Physics School on Strongly Interacting Quantum Systems out of Equilibrium - Lecture Series**
Les Houches (France), 13-15 August 2012
“Probing Dynamical and Static Properties of Quantum Matter Using Ultracold Atoms”
- 153 International Conference on Atomic Physics (ICAP) 2012 – Keynote Talk**
Paris (France), 23-27 July 2012
“Quantum Matter under Extreme Conditions”

- 152 Princeton Workshop on Non-Equilibrium Phenomena in Ultracold Atoms and Strongly Interacting Photons**
Princeton (USA), 11-13 June 2012
“Exploring Static and Dynamic Properties of Quantum Matter at the Single Atom Level”
- 151 New Quantum States of Matter In and Out of Equilibrium**
Florence (Italy), 21-25 May 2012
“Probing Quantum Gases In- and Out of Equilibrium”
- 150 Quantum Interfaces**
Chicheley Hall (UK), 14-15 May 2012
“Probing Quantum Many-Body Systems at the Single Atom Level”
- 149 Workshop on Quantum Gases**
Trento (Italy), 12 March 2012
“Observing and Controlling Quantum Matter at the Single Atom Level”
- 148 AQUATE Winter School on Quantum Information Processing**
Oberurgl (Austria), 6-10 February 2012
“Observing and Controlling Quantum Matter at the Single Atom Level”
- 147 Center for Quantum Technologies, 4th Anniversary**
National University of Singapore (Singapore), 7 December 2011
“Observing and Controlling Quantum Matter at the Single Atom Level”
- 146 ITAMP/Harvard Quantum Optics Center Colloquium**
Harvard University (USA), 1 December 2011
“Observing and Controlling Quantum Matter”
- 145 Ehrenfest Colloquium**
Leiden University (NL), 23 November 2011
“Observing and Controlling Quantum Matter”
- 144 LENS Colloquium**
Florence (Italy), 20 October 2011
“Probing and Controlling Strongly Interacting Quantum Matter”
- 143 Quantum Information Processing Conference**
Zurich (Switzerland), 5-7 September 2011
“Probing and Controlling Strongly Interacting Quantum Matter”
- 142 Scottish University Summer School in Physics**
Glasgow (UK), 2-4 August 2011
“Introduction to Many-Body Physics with Ultracold Atoms”

- 141 Frontiers of Quantum and Mesoscopic Thermodynamics (FQMT)**
Prague (Czech Republic), 27-29 July 2011
“Probing and Controlling Strongly Interacting Quantum Matter at the Single-Atom Level”
- 140 Summer School on “Quantum Machines”**
Les Houches (France), 13-15 July 2011
“Ultracold Quantum Gases in Optical Lattices”
- 139 EGAS Conference**
Fribourg (Switzerland), 29 June-1 July 2011
“*Probing and Controlling Strongly Interacting Quantum Matter at the Single-Atom Level*”
- 138 DAMOP APS Meeting**
Atlanta (USA), 15-17 June 2011
“*Probing and Controlling Strongly Interacting Quantum Matter at the Single-Atom Level*”
- 137 Summer School on Disordered Quantum Systems**
Cargese (France), 30 May-5 June 2011
“*Introduction to Many-Body Physics with Ultracold Atoms*”
- 136 Workshop on Quantum Science and Technologies**
Rovereto (Italy), 10-11 May 2011
“*Probing Strongly Interacting Quantum Matter using Ultracold Quantum Gases*”
- 135 International Conference on Quantum Technologies**
Munich (Germany), 9 May 2011
“*Ultracold Atoms in Optical Lattices*”
- 134 Physics Colloquium, Southampton University**
Southampton (UK), 10 December 2010
“*Exploring Strongly Correlated Quantum Matter in Artificial Crystals of Light*”
- 133 Entanglement in Atomic Systems**
Weizmann Institute of Science (Israel), 21-25 November 2010
“*Detecting and Controlling Correlations and Entanglement in Ultracold Atomic Gases*”
- 132 JILA Seminar**
Boulder, CO (USA), 30 September 2010
“*Non-equilibrium dynamics and single-site imaging of ultracold atoms in optical lattices*”
- 131 Physics Colloquium, University of Colorado in Boulder**
Boulder, CO (USA), 29 September 2010
“*Exploring Strongly Correlated Quantum Matter in Artificial Crystals of Light*”

- 130 Beyond Optical Lattice – KITP program**
KITP Santa Barbara (USA), 21 September 2010
“Single Site and Single Atom Imaging of Strongly Correlated Quantum Gases”
- 129 Controlled Quantum Dynamics and QUAMP Summer School**
London (UK), 31 August-3 September 2010
“Ultracold Bosonic and Fermionic Atoms in Optical Lattices”
- 128 Quantum Solids, Liquids and Gases**
NORDITA Stockholm (Sweden), 23 August 2010
“Non-equilibrium Dynamics and Single Site Addressing in Strongly Interacting Quantum Gases in Optical Lattices”
- 127 Many-body Physics with Ultracold Atoms**
Les Houches (France), 11-16 July 2010
“Ultracold Bosonic and Fermionic Atoms in Optical Lattices”
- 126 Workshop on Dynamics of Strongly Correlated Quantum Systems**
ICTP Trieste (Italy), 21-25 June 2010
“Non-equilibrium Dynamics of Bosons and Fermions in Optical Lattices”
- 125 OptETH Colloquium ETH Zurich**
ETH Zurich (Switzerland), 31 May 2010
“Exploring Quantum Matter with Ultracold Atoms”
- 124 CIFAR Quantum Materials Program Meeting**
Montreal (Canada), 5-9 May 2010
“Non-Equilibrium Dynamics of Strongly Interacting Bosonic and Fermionic Quantum Gases”
- 123 Kavli Colloquium (TU Delft & Kavli Institute for Nanoscience)**
Delft (Netherlands), 14-16 April 2010
“Exploring Quantum Matter with Ultracold Atoms”
- 122 Physics Colloquium (Ohio State University OSU)**
Columbus (USA), 15-17 February 2009
“Exploring Quantum Matter with Ultracold Atoms”
- 121 Physics Colloquium, Princeton University**
Princeton (USA), 10 October 2009
“Exploring Quantum Matter with Ultracold Atoms”
- 120 JQI Seminar (University of Maryland & NIST)**
College Park (USA), 7 October 2009
“Non-Equilibrium Dynamics of Strongly Interacting Bosonic and Fermionic Quantum Gases”

- 119 KITPC Workshop on Cold Quantum Gases**
Beijing (China), 12-15 October, 2009
“Non-Equilibrium Dynamics of Strongly Interacting Bosonic and Fermionic Quantum Gases”
- 118 Frontiers of Science Plenary Talk at KITPC**
Beijing (China), 13 October 2009
“Exploring Quantum Matter with the Coldest Objects in the Universe”
- 117 Physics Colloquium Fribourg**
Fribourg (Switzerland), 30 September 2009
“Exploring Quantum Matter with Ultracold Atoms”
- 116 FET Seminar at the European Commission**
Brussels (Belgium), 17 September 2009
“Quantum Simulations”
- 115 BEC2009 Conference**
San Feliu (Spain), 6-10 September 2009
“Non-Equilibrium Dynamics of Strongly Interacting Bosonic and Fermionic Quantum Gases”
- 114 ICREA Workshop on Artificial Gauge Fields**
San Benet (Spain), 1-4 September 2009
“Preparing and Manipulating Exotic Quantum States in Optical Lattices”
- 113 SCALA Summer School on Quantum Optics & Quantum Information**
Cargèse (France), 22-25 August 2009
“Ultracold Bosonic and Fermionic Quantum Gases in Optical Lattices”
- 112 International Conference on Laser Spectroscopy (ICOLS09)**
Memanbetsu (Japan), 8-12 June 2009
“Strongly Correlated Bosons and Fermions in Optical Lattices”
- 111 Seminar Physics Department École Polytechnique**
Paris (France), 31 March-1 April 2009
“Strongly Correlated Quantum Matter in Optical Lattices”
- 110 LOWDIM KITP Conference**
St. Barbara (USA), 21-26 February 2009
“Strongly Correlated Quantum Matter in Optical Lattices”
- 109 NordForsk Meeting**
Copenhagen (Denmark), 15-16 January 2009
“New Light on Bosons, Fermions and Bose-Fermi Mixtures in Optical Lattices”

- 108 International Symposium on Physics of Quantum Technology**
Nara (Japan), 24-28 November 2008
“New Light on Bosons, Fermions and Bose-Fermi Mixtures in Optical Lattices”
- 107 Frontiers of Degenerate Quantum Gases**
Beijing (China), 20-24 October 2008
“New Light on Bosons, Fermions and Bose-Fermi Mixtures in Optical Lattices”
- 106 Solvay Conference on Condensed Matter Physics - (Rapporteur talk)**
Brussels (Belgium), 11-13 October 2008
“Strongly Correlated Quantum Systems with Ultracold Atoms in Optical Lattices”
- 105 Quantum Fluids and Strongly Correlated Systems**
Paris (France), 15-16 September 2008
“Strongly Correlated Fermions and Bose-Fermi Mixtures in Optical Lattices”
- 104 Low Temperature Physics LT25**
Amsterdam (Netherlands), 10-12 August 2008
“Strongly Correlated Fermions and Bose-Fermi Mixtures in Optical Lattices”
- 103 International Conference on Atomic Physics (ICAP) 2008**
University of Connecticut Storrs (USA), 26 July-1 August 2008
“Strongly Correlated Fermions and Bose-Fermi Mixtures in Optical Lattices”
- 102 DAMOP 2008**
Pennstate University (USA), 27-31 May 2008
“Towards Quantum Magnetism with Ultracold Atoms”
- 101 Workshop on Quantum Phenomena and Information: From Atomic to Mesoscopic System**
Trieste (Italy), 5-16 May 2008
“Exploring Quantum Matter with Ultracold Atom in Optical Lattices”
- 100 Lecture Series at the Israel Institute of Technology (Technion)**
Haifa (Israel), 10-15 April, 2008
“Ultracold Quantum Gases”
- 99 INTERF08 Meeting**
Levico (Italy), 3-5 April 2008
“Noise Correlations and Spin Squeezing with Ultracold Atoms”
- 98 APS March Meeting**
New Orleans (USA), 10-14 March 2008
“Exploring Quantum Matter with Ultracold Atoms in Optical Lattices”
- 97 ESF Conference on Quantum Optics**
Obergurgl (Austria), 25-27 February 2008
“Ultracold Atoms in Optical Lattices”

- 96 Quantum Noise in Correlated Systems**
Rehovot (Israel), Weizmann Institute, 5-11 January 2008
“Probing Quantum Matter in Optical Lattices”
- 95 Winter School on Theoretical Condensed Matter Physics**
Jerusalem (Israel), 26 December – 4 January 2008
“Ultracold Quantum Gases in Optical Lattices”
- 94 Harvard Theory Seminar**
Harvard (USA), 25 October 2007
“Exploring Quantum Matter with Ultracold Atoms in Optical Lattices”
- 93 Stanford Physics Colloquium**
Stanford (USA), 23 October 2007
“Exploring Quantum Matter with Ultracold Atoms”
- 92 Opening of CoQus (Graduate School on Complex Quantum Systems)**
Vienna (Austria), 8 October 2007
“Exploring Quantum Matter with Ultracold Atoms in Optical Lattices”
- 91 Bose-Einstein Condensation 2007 – Frontiers in Quantum Gases**
San Feliu des Guixols (Spain), 15-20 September 2007
“Towards Quantum Magnetism with Ultracold Atoms in Optical Lattices”
- 90 Quantum, Atomic & Molecular Physics Conference (QuAMP)**
London (UK), 10-13 September 2007
“Towards Quantum Magnetism with Ultracold Atoms in Optical Lattices”
- 89 Summer School on Novel Quantum Phases and Non-equilibrium Phenomena in Cold Atomic Gases**
Trieste (Italy), 27 August-7 September 2007
“Exploring Quantum Matter with Ultracold Atoms in Optical Lattices”
- 88 International School on Quantum Fluids**
Brasilia (Brazil), 14-20 August 2007
“Ultracold Atoms in Optical Lattices”
- 87 Conference on “Exploring Quantum Matter: Visions and Opportunities”**
St. Andrews (UK), 2-6 July 2007
“Exploring Quantum Matter with Ultracold Atoms in Optical Lattices”
- 86 Conference on “Recent progress in the studies of quantum gases: theory and experiments”**
Paris (France), 28 June 2007
“Towards Quantum Magnetism with Ultracold Atoms in Optical Lattices”

- 85 International Conference on Laser Spectroscopy – ICOLS**
Telluride (USA), 24-28 June 2007
“Towards Quantum Magnetism with Ultracold Atoms in Optical Lattices”
- 84 International Conference on Quantum Electronics IQEC – Tutorial lecture**
Munich, 20 June 2007
“Ultracold Atoms in Optical Lattices”
- 83 Center for Ultracold Atoms (CUA) Colloquium – Harvard University**
Boston (USA), 8 May 2007
“Towards Quantum Magnetism with Ultracold Atoms in Optical Lattices”
- 82 Condensed Matter Physics Seminar Boston University**
Boston (USA), 7 May 2007
“Strongly Correlated Many Body Physics with Ultracold Atoms in Optical Lattices”
- 81 Physics Colloquium – University of California Santa Barbara**
Santa Barbara (USA), 1 May 2007
“Experimenting with Ultracold Atoms in Optical Lattices”
- 80 KITP Workshop on “Strongly Correlated Phases in Condensed Matter and Degenerate Atomic Systems”**
Santa Barbara (USA), 22-28 April 2007
“Strongly Correlated Quantum Phases with Ultracold Atoms in Optical Lattices”
- 79 Gordon Research Conference on Quantum Information**
Il Ciocco (Italy), 16-20 April 2007
“Quantum Information Processing with Neutral Atoms”
- 78 Measurement based Quantum Computing Workshop**
Oxford (UK), 21-23 March 2007
“Entangling Neutral Atoms in Optical Lattices”
- 77 Symposium on Ultracold Quantum Gases – Talk with Elliot Lieb**
Aarhus (Denmark), 6-7 November 2006
“Strongly correlated atoms in optical lattices”
- 76 Canadian Institute of Advanced Research – Quantum Materials Meeting**
Vancouver (Canada), 19-21 October 2006
“Strongly correlated atoms in optical lattices”
- 75 7th European QIPC Workshop at the Royal Society**
London (UK), 13-14 October 2006
“Quantum Information Processing with Neutral Atoms”
- 74 Theory Colloquium University of Geneva**
Geneva (Switzerland), 5 October 2006
“Strongly Correlated Quantum Matter in Optical Lattices”

- 73 ICO (International Commission of Optics) Meeting, Plenary Talk**
St. Petersburg (Russia), 3-6 September 2006
“Exploring Quantum Matter in Artificial Crystals of Light”
- 72 ICAP 2006 (International Conference on Atomic Physics)**
Innsbruck (Austria), 16-21 July 2006
“Strongly Correlated Quantum Matter in Optical Lattices”
- 71 Varenna Summer School on “Ultracold Fermi Gases”**
Varenna (Italy), 29-30 June 2006
“Strongly Correlated Quantum Matter in Optical Lattices”
- 70 Gordon Research Conference on Quantum Information Science**
Il Ciocco, Castelvecchio (Italy), 7-12 May 2006
“Entangling Neutral Atoms in Optical Lattices”
- 69 Meeting of the Dutch and Belgian Physics Society, FYSICA 2006**
Plenary talk, Leiden (Netherlands), 28 April 2006
“New Light on Modern Optics”
- 68 Stockholm University (KTP), Physics Colloquium**
Stockholm (Sweden), 23-24 March 2006
“Exploring Quantum Matter in Artificial Crystals of Light”
- 67 Ehrenfest Colloquium**
Leiden (Netherlands), 15 February 2006
“Exploring Quantum Matter in Artificial Crystals of Light”
- 66 Non-equilibrium Phenomena in Strongly Correlated Quantum Systems, ITAMP Workshop**
Boston (USA), 9-12 February 2006
“Coherence, Correlations & Counting Statistics of Ultracold Atoms in Optical Lattices”
- 65 DAAD/DFG organized Promotional Lecture/Dinner Talk**
London (UK), 1 December 2005
“Ultracold Atoms – From Einstein’s Dream to Reality”
- 64 KVDS Meeting on Quantum Information**
Copenhagen (Denmark), 18-19 November 2005
“Entangling Neutral Atoms in Optical Lattices”
- 63 AMOP Meeting of the Dutch Physical Society, Plenary talk**
Lunteren (Netherlands), 11-12 November 2005
“Mott Insulators, Noise Correlations and Coherent Spin Dynamics in Optical Lattices”

- 62 Technical University of Eindhoven, Physics Colloquium**
Eindhoven (Netherlands), 27-28 October 2005
"Exploring Quantum Matter in Crystals of Light"
- 61 European Science Foundation Meeting on BEC**
San Feliu (Spain), 10-15 September 2005
"Mott Insulators, Noise Correlations and Coherent Spin Dynamics in Optical Lattices"
- 60 Summer School on Quantum Information**
Kochi (Japan), 1-7 September 2005
Lecture Series on Quantum Information with Ultracold Atoms in Optical Lattices
- 59 OSA Invited Lecturer for Developing Countries**
Yerevan (Armenia), 22-26 August 2005
Lecture Series on Ultracold Atoms
- 58 Low Temperature Physics 24, Plenary talk**
Orlando (USA), 10-12 August 2005
"Mott Insulators, Noise Correlations and Coherent Spin Dynamics in Optical Lattices"
- 57 Low-D Workshop Amsterdam**
Amsterdam (Netherlands), 28-30 July 2005
"Strongly Correlated Quantum Matter in Optical Lattices"
- 56 International Conference on Quantum Electronics, IQEC 2006**
Tokyo (Japan), 13-16 July 2005
"Mott Insulators, Noise Correlations and Coherent Spin Dynamics in Optical Lattices"
- 55 Quantum Optics VI, EQEC - Keynote Talk**
Munich (Germany), 17 June 2005
"Spatial Quantum Noise Interferometry and more..."
- 54 Aspen Workshop on Ultracold Quantum Gases**
Aspen (USA), 4-6 June 2005
Lecture Series on "Correlations and Coherent Spin Oscillations"
- 53 Annual Meeting Finnish Optical Society, Plenary talk**
Jvaskylä (Finland), 12-13 May 2005
"Exploring Quantum Matter in Artificial Crystals of Light"
- 52 IOP – Einstein Year 2005 Symposium, Plenary talk**
Warwick (UK), 11-14 April 2005
"Exploring Quantum Matter with Ultracold Atoms in Optical Lattices"

- 51 International Meeting on Mesoscopic Physics with Matter and Waves**
Orsay (France), 21-22 March 2005
"Exploring Strongly Correlated Quantum Systems with Neutral Atoms in Optical Lattices"
- 50 International Seminar on Atomic Processes in Intense Laser Fields and Related Many-Body Phenomena**
Shonan Village Center (Japan), 21-23 January 2005
"From Quantum Simulators to Quantum Gates with Neutral Atoms in Optical Lattices"
- 49 Van der Waals-Zeeman-Institute (University of Amsterdam) Physics Colloquium**
Amsterdam (Netherlands), 11 January 2005
"Exploring Strongly Correlated Quantum Systems with Ultracold Atoms in Optical Lattices"
- 48 University of Geneva - Physics Colloquium**
Geneva (Switzerland), 15 November 2004
"Exploring Strongly Correlated Quantum Matter with Ultracold Atoms in Optical Lattices"
- 47 Les Houches Workshop 2004**
Les Houches (France) 20-23 September 2004
"Neutral Atoms in Optical Lattices – from Quantum Simulators to Multiparticle Entanglement"
- 46 International Conference on Quantum Logic and Communications**
Cargese (Corse), 22-26 August 2004
"Neutral Atoms in Optical Lattices – from Quantum Simulators to Multiparticle Entanglement"
- 45 International Conference on Atomic Physics - ICAP 2004**
IFSC, Rio de Janeiro, (Brazil) 24 July - 1 August 2004
"Engineering Multiparticle Entanglement with Neutral Atoms in Optical Lattices"
- 44 EGAS 2004, Journal of Physics B Plenary Lecture**
Rennes (France), 4-11 July 2004
"Exploring quantum matter in artificial crystals of light"
- 43 College de France**
College de France, Paris (France), 25-26 May 2004
"Exploring and controlling quantum matter in artificial crystals of light"
- 42 Conference on Ultracold Quantum Gases**
Kavli Institute, Santa Barbara, (USA), 8-15 May 2004
"Tonks-Girardeau gas in an optical lattice"

- 41 Plenary Talk at the Annual Spring Meeting of the American Physical Society**
Montreal (Canada), 20-26 March 2004
"Exploring quantum many body phases in optical lattice potentials"
- 40 QUEST-Meeting**
La Thuile (Suisse), 7-12 March 2004
"Engineering entanglement of ultra cold atoms in optical lattices"
- 39 Workshop on Ultra Cold Gases**
Levico (Italy), 3-6 March 2004
"Fermionizing bosons in optical lattices"
- 38 Arkadi Aronov Memorial Lecture at the Weizman Institute of Science**
Tel Aviv, (Israel), 25-29 February 2004
"Exploring quantum matter in optical lattices"
- 37 Plenary Talk at the Annual Spring Meeting of the AAAS**
Seattle, (USA), 13-16 February 2004
"Controlling matter at the quantum limit"
- 36 École-Normale-Superieure – Physics Colloquium**
Paris (France), 20 November 2003
"Exploring quantum matter in artificial crystals of light"
- 35 European Science Foundation - BEC2003**
San Feliu (Spain), 13-18 September 2003
"Controlled Collisions with Neutral Atoms in Optical Lattices"
- 34 Quantum Challenges Conference**
Warsaw (Poland), 4-7 September 2003
"Controlling Many-Body States of Neutral Atoms in Optical Lattices"
- 33 Gordon Research Conference – Quantum Control of Light and Matter**
Mount Holyoke College (USA), 3-8 August 2003
"Control of Matter in Lattices of Light"
- 32 Plenary Talk at the Annual Meeting of the French Physical Society SFP**
Lyon (France), 7-9 July 2003
"Bose-Einstein Condensates in Optical Lattices"
- 31 EQEC – European Quantum Electronics Conference 2003**
Munich (Germany), 26 June 2003
"Controlled Collisions for Multiparticle Entanglement"
- 30 University of Oxford – Physics Department Seminar**
Oxford (United Kingdom), 16 June 2003
"Controlled Collisions for Multiparticle Entanglement"

- 29 **IQEC-CLEO International Quantum Electronics Conference 2003**
Baltimore (USA), 4-7 June 2003
"Controlled Collisions with Neutral Atoms in Optical Lattices"
- 28 **HANSCOM Research Laboratories**
Boston (USA), 16 May 2003
"Bose-Einstein Condensates in Optical Lattices"
- 27 **Massachusetts Institute of Technology (MIT) – Physics colloquium**
Massachusetts Institute of Technology, Boston (USA) 15 May 2003
"Seeing the Particles beneath the Waves – Beyond Mean Field Physics with Bose-Einstein-Condensates in Optical Lattices"
- 26 **Center for Ultracold Atoms - Colloquium**
Center for Ultracold Atoms, Boston (USA), 13 May 2003
"Controlled Collisions with Neutral Atoms in Optical Lattices"
- 25 **Harvard University - Physics colloquium**
Harvard University, Boston (USA), 12 May 2003
"Seeing the Particles beneath the Waves – Beyond Mean Field Physics with Bose-Einstein-Condensates in Optical Lattices"
- 24 **Correlation Effects in Bose-Einstein Condensates and Degenerate Fermi Gases**
University of Minneapolis, Minneapolis (USA), 2-4 May 2003
"Controlled Collisions with Neutral Atoms in Optical Lattices"
- 23 **University of Strathclyde, Physics Department**
Glasgow (UK), 19 March 2003
"Seeing the particles beneath the waves – Beyond mean field physics with Bose-Einstein condensates in optical lattices"
- 22 **Obergurgl Quantum Optics Meeting 2003**
Obergurgl (Austria), 24 February 2003
"Controlled Collisions with Neutral Atoms in Optical Lattices"
- 21 **American Association for the Advancement of Science (AAAS) Quantum Phases and Quantum Phase Transitions**
Denver (USA), 15 February 2003
"Quantum phase transition from a superfluid to a Mott insulator in a gas of ultracold atoms"
- 20 **Collège de France Symposium "Cold atoms and quantum information"**
Paris (France), 7 February 2002
"Controlled collisions with neutral atoms in optical lattices"
- 19 **Royal Society workshop on "Practical realizations of quantum computing"**
London (UK), 13-14 November 2002
"Controlled collisions with neutral atoms in optical lattices"

- 18 NIST Seminar**
Gaithersburg (USA), 7 November 2002
"Controlled collisions with neutral atoms in optical lattices"
- 17 Stanford University, Physics Colloquium**
Stanford (USA), 5 November 2002
"Seeing the particles beneath the waves"
- 16 7th International Workshop on Atom Optics and Interferometry**
Lunteren (Netherlands), September/October 2002
"Beyond mean field physics with Bose-Einstein condensates in optical lattices"
- 15 University of California Berkeley, Physics Department**
Berkeley (USA), August 2002
"Quantum phase transition from a superfluid to a Mott insulator in an ultracold gas of atoms"
- 14 International Conference on Atomic Physics (ICAP)**
Boston (USA), August 2002
"Seeing the particles beneath the waves – Beyond mean field physics with Bose-Einstein condensates in optical lattices"
- 13 International Conference on Laser Physics LPHYS 2002**
Bratislava (Slovakia), July 2002
"Quantum phase transition from a superfluid to a Mott insulator in an ultracold gas of atoms"
- 12 NIST Workshop on Quantum Computing**
Gaithersburg (USA), June 2002
"Beyond mean field physics with Bose-Einstein condensates in optical lattices"
- 11 DAMOP 2002 Meeting, Williamsburg**
Williamsburg (USA), May 2002
"Quantum phase transition from a superfluid to a Mott insulator in an ultracold gas of atoms"
- 10 Stanford University, Physics & Applied Physics Department**
Stanford (USA), 6 May 2002
"Quantum phase transition from a superfluid to a Mott insulator in an ultracold gas of atoms"
- 9 Yale Physics Club, (Physics Colloquium of Yale University)**
Yale, New Haven (USA), 22 February 2002
"Quantum phase transition from a superfluid to a Mott insulator in an ultracold gas of atoms"

- 8 Physics Colloquium of the University of Trento**
Trento (Italy), 17 January 2002
"Quantum phase transition from a superfluid to a Mott insulator in an ultracold gas of atoms"
- 7 CUA/ITAMP Workshop, Beyond BEC: Ultracold Atoms beyond Mean-Field Physics**
Harvard, Cambridge (USA), 2-3 November 2001
"Quantum phase transition from a superfluid to a Mott insulator"
- 6 Physics Colloquium of the University of Innsbruck**
Innsbruck, 30 October 2001
"Quantum phase transition from a superfluid to a Mott insulator"
- 5 Euresco Conference, Bose-Einstein condensation**
San Feliu de Guixols (Spain), 15-20 September 2001
"Quantum phase transition from a superfluid to a Mott insulator"
- 4 5th RIKEN International Conference, Coherent Control in Matter**
Shonan Village Center, Hayama (Japan), 22-25 April 2001
"Atom lasers and phase coherence of Bose-gases"
- 3 Quantum Optics and Spectroscopy Seminar**
Institute for Experimental Physics, University of Innsbruck, Innsbruck (Austria), 17 January 2001
"Atom lasers"
- 2 9th Annual International Laser Physics Workshop, LPHYS'2000**
Bordeaux (France), 17-21 July, 2000
"Atom lasers and phase coherence of Bose-gases"
- 1 Les Houches Workshop, Atom Optics Applications**
Les Houches (France), 23-28 May 1999
"Atom lasers and coherence properties of BECs"

Further Invited Talks

- 121 **Workshop on Floquet Systems, MIPPKS Dresden, 8-9 August**
“Many-Body Localization from an Experimental Ultracold Atom Perspective”
- 120 **Technische Universität Kaiserslautern, Physik Kolloquium, 27 June 2016**
“Probing and Controlling Quantum Matter at the Single Atom Level”
- 119 **Workshop on Topological Phenomena in Novel Quantum Matter, MIPPKS Dresden, 2-3 March 2016**
“Probing and Controlling Bloch Band Topology with Ultracold Atoms”
- 118 **DPG Symposium - Synthesized Gauge Fields and Experimental Realizations, 1 March 2016**
“Probing Bloch Band Topology using Ultracold Atoms”
- 117 **University of Bayreuth, Physik Kolloquium, 19 January 2016**
“Probing and Controlling Quantum Matter at the Single Atom Level”
- 116 **Arnold Sommerfeld School, Munich 21 October 2015,**
“Realizing and Probing Artificial Gauge Fields with Ultracold Atoms”
- 115 **Frontiers of Quantum Information and Quantum Simulation, Heidelberg, 20 July 2015**
“From Rydberg Gases to Many-Body Localisation - New Frontiers for Ultracold Atoms”
- 114 **Physikalisches Kolloquium, Universität Bielefeld, Bielefeld, 8 June 2015**
“Controlling and Exploring Quantum Matter at the Single Atom Level”
- 113 **DPG Spring Meeting - Berlin, Berlin, 17 March 2015**
“Probing Non-Equilibrium Dynamics with Ultracold Atoms”
- 112 **Many-Body Dynamics Out Of Equilibrium – MPIK Dresden, Dresden, 10 March 2015**
„Probing Quantum Many-Body Systems Out Of Equilibrium”
- 111 **Quo Vadis, BEC – Number 5?, Bad Honnef, 15-19 December 2014**
„From Topological Bloch Bands to Long-Range Interacting Rydberg Atoms“
- 110 **Univ. of Toky-LMU Meeting, Mainz, 27-28 October 2014**
„Realizing and Probing Topological Bloch Bands with Ultracold Atoms“

- 109 **CIFAR-MPG Quantum Materials Meeting**, Stuttgart, 16 October 2014
„Realizing and Probing Topological Bloch Bands with Ultracold Atoms“
- 108 **Was machen unsere Nachbarn, die Forscher, in Garching?**, Garching, 28 September 2014
„Experimentieren mit den kältesten Objekten des Universums“
- 107 **Single Atoms Symposium – 60th Birthday D. Meschede**, Bad Honnef, 26 April 2014
„From Ultracold to Ultrahot – Probing ‚Higgs‘ Excitation with Ultracold Atoms“
- 106 **DPG Frühjahrstagung – Dresden**, Dresden, 2 April 2014
„Probing Non-Equilibrium Quantum Dynamics at the Single Atom Level“
- 105 **Wissenschaft für jedermann – Deutsches Museum**, Munich, 19 February 2014
„Experimentieren mit den kältesten Objekten des Universums“
- 104 **Physics Colloquium – FU Berlin**, Berlin, 6 December 2013
„Controlling and Exploring Quantum Matter at the Single Atom Level“
- 103 **Physics Colloquium – University of Ulm**, Ulm, 2 December 2013
„Controlling and Exploring Quantum Matter at the Single Atom Level“
- 103 **Physics Colloquium – University of Bochum**, Bochum, 11 November 2013
„Controlling and Exploring Quantum Matter at the Single Atom Level“
- 102 **Physics Colloquium – University of Duisburg/Essex**, 7 November 2013
„Controlling and Exploring Quantum Matter at the Single Atom Level“
- 101 **Körber Lecture – University of Hamburg**, Hamburg, 5 September 2013
„Probing Quantum Matter Atom-by-Atom in Artificial Crystals of Light“
- 100 **Physics Colloquium – Karlsruhe Institute of Technology (KIT)**, Karlsruhe, 21 June 2013
„Probing and Controlling Quantum Matter at the Single Atom Level“
- 99 **Physics Colloquium – University of Heidelberg**, Heidelberg 14 June, 2013
„Probing Quantum Matter at the Single Atom Level“
- 98 **Colloquium – Max Planck Institute of Physics**, Garching, 4 June, 2013
„Probing and Controlling Ultracold Quantum Matter under Extreme Conditions“
- 97 **Physics Colloquium – University of Halle**, Halle, 23 May, 2013
„Probing and Controlling Quantum Matter at the Single Atom Level“
- 96 **DPG Condensed Matter Spring Meeting**, Regensburg, 11 March 2013,
„Probing Topological Bloch Bands using Ultracold Quantum Gases“

- 95 **Physics Colloquium – University of Frankfurt**, Frankfurt, 6 December 2012
„Probing and Controlling Quantum Matter at the Single Atom Level“
- 94 **Distinguished Lecturer – Max Planck Institute for the Science of Light**,
Erlangen, 22 November 2012
„Probing and Controlling Quantum Matter at the Single Atom Level“
- 93 **Grosses Physikalisches Kolloquium - University of Cologne**, Cologne, 16 October
2012
„Probing and Controlling Quantum Matter at the Single Atom Level“
- 92 **Physics Colloquium – University of Göttingen**, Göttingen, 9 July 2012
„Probing and Controlling Quantum Matter at the Single Atom Level“
- 91 **Quantum Matter from the Nano- to the Macroscale**, Dresden, 25-29 June 2012
*„Exploring Static and Dynamical Properties of Quantum Gases at the Single Atom
Level“*
- 90 **WE Heraeus Seminar – Highlights of Quantum Optics**, Bonn, 7-10 May 2012
„Probing Quantum Many-Body Systems at the Single Atom Level“
- 89 **CPTS Sektionssitzung – Max-Planck Gesellschaft**, Berlin, 15 February 2012
„Observing and Controlling Quantum Matter at the Single Atom Level“
- 88 **CFEL Seminar**, Hamburg, 20 January 2012
„Observing and Controlling Quantum Matter at the Single Atom Level“
- 87 **Workshop on Engineering and Control of Quantum Systems**, Dresden, 13-14
October 2011
„Probing and Controlling Strongly Interacting Quantum Matter“
- 86 **Physics Colloquium – Physikalisch Technische Bundesanstalt (PTB)**
Braunschweig, 6 October 2011
*„Probing and Controlling Strongly Interacting Quantum Matter at the Single Atom
Level“*
- 85 **Coherence and Decoherence at Ultracold Temperatures**, Garching, 8-9
September 2011
*„Probing and Controlling Strongly Interacting Quantum Matter at the Single Atom
Level“*
- 84 **Ruperto Carola Symposium - Pushing Frontiers in Quantum Information with
Atoms and Photons**, Heidelberg, 1-3 September 2011
„Probing and Controlling Strongly Interacting Quantum Matter“
- 83 **Physics Colloquium – University of Mainz**, Mainz, 12 July 2011
„Probing and Controlling Strongly Interacting Quantum Matter“

- 82 **Physics Colloquium – University of Augsburg**, Augsburg, 13 December 2010
“Exploring Strongly Correlated Quantum Matter in Artificial Crystals of Light”
- 81 **Laserfest Berlin**, Berlin, 23 March 2010
“Exploring Quantum Matter with the Coldest Objects in the Universe”
- 80 **Quantum Criticality and Novel Phases (QCNP) 2009**, Dresden, 2-5 August 2009
“Strongly Correlated Fermionic Quantum Gases in Optical Lattices”
- 79 **Physics Colloquium Stuttgart**, Stuttgart, 7 July 2009
“Exploring Quantum Matter with Ultracold Atoms in Optical Lattices”
- 78 **FOR635 Workshop**, Bonn, 6-8 July 2009
“Controlling Light and Matter with Ultracold Atoms in Optical Lattices”
- 77 **Invited Symposium Speaker, DPG Spring Meeting 2009**, Dresden, 23 March 2009
“Strongly Correlated Quantum Matter in Optical Lattices”
- 76 **Joint Physics Colloquium TU Karlsruhe/University of Heidelberg**, Karlsruhe, 30 January 2009
“Exploring Quantum Matter with Ultracold Atoms in Artificial Crystals of Light”
- 75 **Physics Colloquium - TU Chemnitz**, Chemnitz, 7 January 2009
“Experimentieren mit Ultrakalten Atomen in Künstlichen Kristallen aus Licht“
- 74 **Max-von-Laue Colloquium – Physikalische Gesellschaft zu Berlin**, TU Berlin, 30 October 2008
„Experimentieren mit Ultrakalten Atomen in Künstlichen Kristallen aus Licht“
- 73 **DPG Lehrerfortbildung**, Physikzentrum der DPG, 20 October 2008
„Experimentieren mit den kältesten Objekten des Universums“
- 72 **SFB/TRR49 Annual Meeting**, Schloss Waldthausen, 25-26 September 2008
„Strongly Correlated Fermions and Bose-Fermi Mixtures in Optical Lattices“
- 71 **Colloquium – University of Bremen**, Bremen, 19 June 2008
„Experimentieren mit Ultrakalten Atomen in Künstlichen Kristallen aus Licht“
- 70 **Frontiers of Quantum Theory**, Berlin, 28-29 April 2008
„Entanglement and Quantum Simulations with Ultracold Atoms“
- 69 **Colloquium – University of Saarbrücken**, Saarbrücken, 17 April 2008
„Experimentieren mit Ultrakalten Atomen in Künstlichen Kristallen aus Licht“
- 68 **DPG Meeting Berlin – 150 Years Max-Planck: Physics Today**, Berlin, 27 February, 2008
„Atomphysik“

- 67 **DPG Meeting Berlin – Symposium on Quantum Phase Transitions**, Berlin, 25 February 2008
„Quantum Phase Transitions with Ultracold Atoms“
- 66 **Colloquium – University of Applied Sciences Fulda**, Fulda, 2 November 2007
„Experimentieren mit den kältesten Objekten des Universums“
- 65 **Colloquium – University of Marburg**, Marburg, 2-4 Juli 2007
“Experimentieren mit Ultrakalten Atomen in Künstlichen Kristallen aus Licht”
- 64 **Colloquium – University of Erlangen**, Erlangen, 21 Mai 2007
„Experimentieren mit Ultrakalten Atomen in Künstlichen Kristallen aus Licht“
- 63 **NMLN Workshop – MPIKS Dresden**, Dresden, 28 March 2007
“Strongly Interacting Atoms in Optical Lattices”
- 62 **DFG Rundgespräche**, Bad Honnef, 21-23 February 2007
“Strongly Interacting Quantum Gases in Optical Lattices”
- 61 **Colloquium – University of Würzburg**, Würzburg, 11 December 2006
“New Light on Quantum Optics”
- 60 **Colloquium – University of Ulm**, Ulm, 27 November 2006
“Experimenting with Strongly Interacting Ultracold Quantum Gases”
- 59 **Colloquium – Max-Planck-Institute for Nuclear Physics**, Heidelberg, 9 November 2006
“Experimenting with Strongly Interacting Ultracold Quantum Gases”
- 58 **Quo Vadis BEC Workshop**, FU Berlin, 28 October 2006
“Experimenting with Strongly Interacting Ultracold Quantum Gases”
- 57 **Kepler Lecture at the University of Tübingen**, Tübingen, 12 July 2006
“New Light on Modern Optics”
- 56 **Otto-Stern Colloquium at the University of Hamburg**, Hamburg, 6 July 2006
“Exploring Quantum Matter in Artificial Crystals of Light”
- 55 **Public evening lecture with Anton Zeilinger**, Mainz, 30 May 2006
“Experimentieren mit den kältesten Objekten des Universums”
- 54 **Colloquium at the University of Bochum**, Bochum, 29 May 2006
“Exploring Quantum Matter in Artificial Crystals of Light”
- 53 **Quantum Information in Solid State Based Systems SFB Workshop**, Herrsching, 25 May 2006
“Entangling Neutral Atoms in Optical Lattices”

- 52 Colloquium at the Max-Planck-Institute for Quantum Optics**, Garching, 23 May 2006
“Ultracold Quantum Gases in Optical Lattices”
- 51 Graduate School on Physics of the University of Heidelberg, Honorary Colloquium**, Heidelberg, 20 April 2006
“Experimentieren mit ultrakalten Quantengasen”
- 50 Naturwissenschaftliches Kolleg der Studienstiftung des deutschen Volkes**, Bad Honnef, 2-7 April 2006
„Lecture series on ultracold quantum gases“
- 49 DPG Tagung 2006, Plenary Lecture**, Frankfurt, 15 March 2006
“100 Jahre Quantenoptik, von Planck und Einstein zur Quantenoptik heute”
- 48 Ludwig-Maximilians-University, Physics Colloquium**, Munich, 23 January 2006
“Exploring Quantum Matter in Crystals of Light”
- 47 Wissenschaftssommer Berlin, Invited Lecture by the DFG for the General Public**, Berlin, 20 June 2005
“Experimentieren mit den kältesten Objekten des Universums”
- 46 University of Tübingen, Physics Colloquium**, Tübingen, 25 May 2005
“Materiewellen am Aufbruch – Neue Physik mit Bose-Einstein-Kondensaten“
- 45 Einstein Year of Physics Lectures**, Bonn, 20 May 2005
“Bose-Einstein-Kondensation”
- 44 RWTH Aachen, Physics Colloquium**, Aachen, 9 May 2005
“Exploring Quantum Matter in Crystals of Light”
- 43 Physics on Saturday Morning**, Mainz, 7 May 2005
“Experimentieren mit den kältesten Objekten des Universums”
- 42 New Trends in Nuclear, Atomic and Molecular Science**, Heidelberg, 12-13 March 2005
“Exploring Quantum Matter in Optical Lattices”
- 41 Meeting of the German Physics Society – Plenary Talk**, Berlin, 4 March 2005
“From Einsteins Dream to Reality – Experimenting with the Coldest Objects in the Universe”
- 40 Fritz Haber Institut of the Max-Planck-Society – Physics Colloquium**, Berlin, 25 February 2005
“Exploring Quantum Matter in Crystals of Light”
- 39 Colloquium, Technische Universität Darmstadt**, Darmstadt, 26 November 2004
“Materiewellen am Aufbruch – neue Physik mit Bose-Einstein-Kondensaten”

- 38 **Colloquium at Graduation Department of Physics, Mainz University, Mainz, 12 November 2004**
"Von Einsteins Traum zur Realität – Experimentieren mit den kältesten Objekten des Universums"
- 37 **Inaugural Lecture, at Mainz University, Mainz, 28 October 2004**
"Von Einsteins Traum zur Realität – Experimentieren mit den kältesten Objekten des Universums"
- 36 **Physics Colloquium, University of Dresden, Dresden, 18 October 2004**
"Seeing Particles beneath the Waves"
- 35 **Workshop on "Quantum Phase Transitions", Bad Honnef, 12 October 2004**
"Exploring strongly correlated quantum matter with ultracold atoms"
- 34 **Workshop on Disordered Ultracold Quantum Gases, Hannover, 28-28 June 2004**
"From entanglement interferometry to molecule formation in optical lattices"
- 33 **Physics Colloquium at the University of Bonn, Bonn, 18 May 2004**
"Materiewellen am Aufbruch – Neue Physik mit Bose-Einstein-Kondensaten"
- 32 **DFG-SPP1116 Meeting, Potsdam, 16-17 March 2004**
"Photoassociation of neutral atoms in optical lattices"
- 31 **Physics Colloquium at GSI Darmstadt, Darmstadt, 13 January 2004**
"Seeing the particles beneath the waves – New physics with Bose-Einstein condensates"
- 30 **Physics Colloquium University of Karlsruhe, Karlsruhe, 12 December 2003**
"Materiewellen am Aufbruch – Neue Physik mit Bose-Einstein-Kondensaten"
- 29 **Quantum Information Processing Workshop, Bonn, 13-15 October 2003**
"Controlled Collisions for Multiparticle Entanglement of Optically Trapped Atoms"
- 28 **Physikalisches Kolloquium Universität Düsseldorf, Düsseldorf, 3 July 2003**
"Materiewellen am Aufbruch – Neue Physik mit Bose-Einstein-Kondensaten"
- 27 **Graduiertenkolleg Universität Regensburg, Regensburg, 22 May 2003**
"Seeing the Particles beneath the Waves"
- 26 **Forschergruppe Quantengase Meeting in Castle Reisenburg, Günzburg, 3 April 2003**
"Controlled Collisions with Neutral Atoms in Optical Lattices"
- 25 **DPG-Spring Meeting Condensed Matter Physics – Eingeladener Hauptvortrag, Dresden, 26 March 2003**
"Materiewellen am Aufbruch – Neue Physik mit Bose-Einstein-Kondensaten"

- 24 **Physics Colloquium University of Frankfurt**, Frankfurt, 29 January 2003
“Materiewellen am Aufbruch – Neue Physik mit Bose-Einstein-Kondensaten“
- 23 **Physics Colloquium University of Kaiserslautern**, Kaiserslautern, 27 January 2003
“Materiewellen am Aufbruch – Neue Physik mit Bose-Einstein-Kondensaten“
- 22 **Physics Colloquium University of Heidelberg**, Heidelberg, 24 January 2003
“Materiewellen am Aufbruch – Neue Physik mit Bose-Einstein-Kondensaten“
- 21 **Physics Colloquium Gerhard-Mercator University of Duisburg**, Duisburg, 20 January 2003
“Materiewellen am Aufbruch – Neue Physik mit Bose-Einstein-Kondensaten“
- 20 **Max-Planck-Institut für Quantenoptik, Laserseminar**, Garching, 26 November 2002
“Seeing the particles beneath the waves – New physics with Bose-Einstein condensates“
- 19 **Interactions in Ultracold Gases: From Atoms to Molecules**, Heidelberg, September 2002
“Beyond mean field physics with Bose-Einstein condensates in optical lattices“
- 18 **Physics Colloquium, TU and LMU Munich**, Munich, 15 July 2002
“Quantum phase transitions from a superfluid to a Mott insulator in an ultracold gas of atoms“
- 17 **Physics Colloquium, University of Cologne**, Cologne, 11 June 2002
“Quantum phase transitions from a superfluid to a Mott insulator in an ultracold gas of atoms“
- 16 **Theory Colloquium, University of Augsburg**, Augsburg, 25 April 2002
“From a weakly interacting Bose gas to a strongly correlated Bose system“
- 15 **Physics Department, University of Mainz**, Mainz, 14 May 2002
“From a weakly interacting Bose gas to a strongly correlated Bose system“
- 14 **Meeting of the SPP1116 program of the DFG “Interactions in ultracold atomic and molecular gases“** Bonn, April 2002
“Quantum phase transitions from a superfluid to a Mott insulator in an ultracold gas of atoms“
- 13 **Quantum Optics Summer School, University of Bonn**, Bonn, April, 2002
“Bose-Einstein condensation“
- 12 **Spring Meeting of the German Physical Society 2002**, Osnabrück, 8 March 2002
“Quantum phase transitions from a superfluid to a Mott insulator in an ultracold gas of atoms“

- 11 **“Lattice days in Stuttgart”, 5. Physikalisches Institut, University of Stuttgart, Stuttgart, 28 February 2002**
”Quantum phase transitions from a superfluid to a Mott insulator in an ultracold gas of atoms”
- 10 **Theoretical Quantum Optics Seminar, Ludwig-Maximilians University of Munich, Munich, 11 February 2001**
”Quantum phase transitions from a superfluid to a Mott insulator in an ultracold gas of atoms”
- 9 **Quantum Optics and Atomic Physics Seminar, University of Heidelberg, Heidelberg, 12 December 2001**
”Quantum phase transition from a superfluid to a Mott insulator in an ultracold gas of atoms”
- 8 **SFB 407 Colloquium, University of Hannover, Hannover, 21 November 2001**
”Quantum phase transition from a superfluid to a Mott insulator“
- 7 **Quantum Optics Summer School, Universität Bonn, Bonn, 20-21 August 2001**
”Bose-Einstein condensation“
- 6 **Physics Colloquium of the University of Oldenburg, Oldenburg, 14 Mai 2001**
”Bose-Einstein condensation and atom lasers/Experimenting with the coldest objects in the universe“
- 5 **Seminar “Quantum Optics and Spectroscopy” Institute for Experimental Physics, University of Innsbruck, Innsbruck, 17 January, 2000**
”Atom lasers”
- 4 **Advanced training for High School physics teachers organized by the Germany Physical Society “100 years quantum physics”, Bonn; August 2000**
”Matter Waves“
- 3 **Max-Planck-Institute for Plasma Physics Garching, 3 February 2000**
”Atom lasers”
- 2 **Physics Colloquium of the University of Göttingen, Göttingen, April 1999**
”Atom lasers“
- 1 **Spring Meeting of the German Physical Society 1999, Heidelberg, Invited Main Talk, Heidelberg, March 1999**
”Atom lasers“