

Invited International Talks

- 302 Quantum Interactive Dynamics**
Oxford University (UK), 23 June 2022
"Probing Non-Equilibrium Dynamics and KPZ Universality using Ultracold Atomic Quantum Simulations"
- 301 Open System Control of Atomic and Photonic Matter**
Physikzentrum Bad Honnef (Germany), 14 June 2022
"Subwavelength Arrays of Quantum Emitters as Novel Light Matter Interfaces"
- 300 Mathematical Results in Quantum Many-Body Systems**
Herrsching (Germany), 9 June 2022
"Probing Quantum Matter In- and Out-of-Equilibrium Using Quantum Gas Microscopes"
- 299 DAMOP Meeting 2022**
Orlando (USA), 30.5.-3.6.2022
"A Single Rydberg Atom Controlled Optical Mirror formed by Subwavelength Arrays of Atoms"
- 298 EU Cluster Review Meeting (PASQuanS)**
Paris (France), 13 May 2022
"Programmable Atomic Large Scale Quantum Simulations"
- 297 QFARM Seminar (Stanford University)**
Stanford (USA), 4 May 2022
"From Kardar-Parisi-Zhang Superdiffusion in Heisenberg Quantum Magnets to Novel Quantum Optical Light Matter Interfaces with Subwavelength Atomic Arrays"
- 296 Stanford Physics Colloquium**
Stanford (USA), 3 May 2022
"Quantum Matter under the Microscope - Engineering and Probing Quantum Matter using Quantum Simulations"
- 295 The European Spring School on Quantum Science and Technology**
Strasbourg (France), Invited Lectures, 11-12 April 2022
"Large Scale Quantum Simulations using Ultracold Quantum Gases in Optical Lattices"

- 294 APS March Meeting 2022**
Chicago (USA), Invited talk (virtual), 14-18 March 2022
"From Polaronic Metals to Hole Pairing - Exploring Fermi-Hubbard Systems using Quantum Gas Microscopy"
- 293 European Quantum Technologies Conference**
Dublin (virtual), Keynote talk, 29 November-2 December 2021
"Quantum Simulations"
- 292 ESI Workshop Topology, Disorder, and Hydrodynamics in Non-equilibrium Quantum Matter**
Vienna (virtual), 29 November 2021
"Probing Kardar-Parisi-Zhang Universality in Heisenberg Quantum Magnets"
- 291 NIST Grand Challenges in QST**
NIST (virtual), 22 November 2021
"Quantum Simulations"
- 290 1st International Symposium in Trans Scale Quantum Science**
Tokyo (virtual), 25-29 October 2021
"Probing Quantum Matter In- and Out-Of-Equilibrium on a Large Scale Atomic Quantum Simulator"
- 289 Bose-Einstein-Condensation 2021**
San Feliu de Guixols, 13-17 September 2021
"Probing Kardar-Parisi-Zhang Universality in Heisenberg Quantum Magnets"
- 288 HKUST IAS Center for Quantum Technologies Inaugural Workshop**
Hong-Kong, Videoconference talk, 26 August 2021
"Probing Quantum Matter In and Out of Equilibrium on a Large-Scale Atomic Quantum Simulator"
- 287 Chilloquium: Harvard Students Colloquium Cambridge**
Videoconference lecture 16 August 2021
"Large Scale Quantum Simulations using Ultracold Atoms"
- 286 Boulder Summer School for Condensed Matter and Material Physics**
Boulder, Videoconference lecture series, 26-28 July 2021
"Experimental Probes of Many-Body Localization Experiments and Non-Equilibrium dynamics"

- 285 **VI International Conference on Quantum Technologies (ICQT) - Digital Edition**
Moscow, Videoconference talk, 15 July 2021
"Probing Quantum Matter In and Out of Equilibrium on a Large-Scale Atomic Quantum Simulator"
- 284 **Janet Das Sarma Colloquium Series QUANTUM**
Videoconference, 17 May 2021
"Realizing and Probing Quantum Matter using Large Scale Quantum Simulations"
- 283 **ICTS Online School on Trapped Atoms, Molecules and Ions, Bangalore (India)**
Videoconference lectures, 18-19 May 2021
"Quantum Simulation"
- 282 **Cornell University Physics Colloquium**
Videoconference 3 May 2021
"Engineering and Probing Quantum Matter using Large Scale Quantum Simulations"
- 281 **ICFO/IMPRS QST Summer School**
Videoconference 24. March 2021
"Engineering and Probing Quantum Matter using Quantum Simulations"
- 280 **Tel Aviv University - Center for Quantum Science and Technology Seminar**
Videoconference, 16 March 2021
"Engineering and Probing Quantum Matter using Quantum Simulations"
- 279 **Israel Quantum Meetup**
Videoconference, 18 January 2021
"Quantum Simulation and Quantum Computing"
- 278 **Workshop on Quantum Simulation**
Tze'elim (Israel) 23-26 February 2020
"Engineered Ultracold Quantum Matter - From Quantum Simulations to Novel Quantum Light-Atom Interfaces"
- 277 **Universidad Autonoma de Barcelona (UAB) Physics Colloquium**
Barcelona (Spain), 19 February 2020
"Quantum Matter under the Microscope"

- 276 **Harvard Quantum Optics Seminar**
Harvard University (USA), 5 February 2020
From Non-Equilibrium Topological Matter to Rydberg Macrodimers
- 275 **Harvard Physics Colloquium**
Harvard University (USA), 3 February 2020
“Engineered Ultracold Quantum Matter - From Quantum Simulations to Novel Quantum Light-Atom Interfaces”
- 274 **Ultra-Quantum Matter (UQM) Meeting – Simons Foundation**
New York (USA), 23-24 January 2020
- 273 **Japan-EU-US Symposium on Quantum Technologies**
Kyoto (Japan), 16-17 December 2019
“Quantum Simulations using Ultracold Atoms and Ions”
- 272 **Quantum Simulations in Optical Lattices and Beyond**
Shanghai (China), 13-14 December 2019
“Exploring Quantum Matter Using Ultracold Atoms”
- 271 **Chalmers University - Light at the Nanoscale: From Molecules to Quantum Computers**
Gothenburg (Sweden), 5-6 December 2019
“Quantum Matter under the Microscope”
- 270 **APS Ridge Colloquium**
Ridge (USA), 21 November 2019
“Large Scale Quantum Simulations Using Ultracold Atoms”
- 269 **Stony Brook – Physics Colloquium**
Stony Brook (USA), 20 November 2019
“Large Scale Quantum Simulations Using Ultracold Atoms”
- 268 **Flatiron Institute – Workshop on Nonequilibrium Quantum Matter**
New York (USA), 19 November 2019
“Exploring Quantum Matter using Ultracold Atoms”
- 267 **Ernest Kempton Adams Lecture – Columbia University**
New York (USA), 18 November 2019
“Quantum Many-Body Dynamics under the Microscope”
- 266 **Open Questions in Quantum Physics: Information, Computation and Foundations**
ESTEC, Leiden (Netherlands), 15 November 2019
“Large Scale Quantum Simulations Using Ultracold Atoms”

- 265 **Ordering and Dynamics of Correlated Quantum Systems**
Évero (Portugal) 21-25 October 2019
“Fermi Hubbard Model under the Quantum Gas Microscope”
- 264 **Les Houches Summer School - Dynamics and Disorder in Quantum Many Body Systems Far From Equilibrium**
Les Houches (France), 17 July – 23 August 2019
“Nonequilibrium Dynamics with Ultracold Atoms”
- 263 **Designing Quantum Matter**
San Sebastian (Spain), 16-18 July 2019
“From Dynamical Spin Charge Deconfinement to Rydberg Macrodimers”
- 262 **Quantum Connections - Summer School**
Stockholm (Sweden), 17-20 June 2019
“Large Scale Quantum Simulations Using Ultracold Atoms in Optical Lattices”
- 261 **GRC Atomic Physics**
Newport Rhode Island (USA), 9-12 June 2019
“From Dynamical Spin Charge Deconfinement to Rydberg Macrodimers”
- 260 **New Trends in Quantum Complex Systems**
Venice (Italy), 8-11 April 2019
“Quantum Simulations using Ultracold Atoms”
- 259 **Quantum Information and Measurement (QIM) V: Quantum Technologies Plenary Talk**
Rome (Italy), 4-6 April 2019
“Quantum Simulations using Ultracold Atoms”
- 258 **Quantum Information: The Second Quantum Revolution?**
Brussels (Belgium), 30 March 2019
“Quantum Simulations of Condensed Matter Systems”
- 257 **ITAMP Winterschool on Quantum Many-Body Systems**
Biosphere 2, Tucson (USA), 10-16 March 2019
“Probing Nonequilibrium Dynamics Using Ultracold Atoms”
- 256 **Quantum Seminar**
Yale Quantum Institute (YQI), New Haven (USA), 26 February 2019
“From Topology to Many-Body Localization using Ultracold Atoms”

- 255 **Hanan Rosenthal Lecture**
Yale University, New Haven (USA), 25 February 2019
“Realizing Richard Feynman’s Dream of a Quantum Simulator”
- 254 **Solvay Workshop on Quantum Simulation**
Brussels (Belgium), 18-20 February 2019
“Controlling and Exploring Quantum Matter using Ultracold Atoms”
- 253 **SFB FoQuS Symposium**
Innsbruck (Austria), 8 February 2019
“Controlling and Exploring Quantum Matter using Ultracold Atoms”
- 252 **Nonequilibrium and transport in many-body systems**
Weizmann Institute of Science, Rehovot (Israel), 20-24 January 2019
“Probing Nonequilibrium Dynamics Using Ultracold Atoms”
- 251 **Colloquium CERN**
Geneva (Switzerland), 9 November 2018
“Realizing Richard Feynman’s Dream of a Quantum Simulator”
- 250 **Colloquium IST Austria**
Vienna (Austria), 29 October 2018
“Realizing Richard Feynman’s Dream of a Quantum Simulator”
- 249 **Scott Lectures – Cambridge University**
Cambridge (UK), 22 October-26 October 2018
Three part lecture series
- 248 **Colloquium – Instituto Fisica Teorica**
Madrid (Spain), 18 October 2018
“Exploring Quantum Matter Using Ultracold Atoms in Optical Lattices”
- 247 **Paco Yndurain Lecture – Universidad Autonoma de Madrid**
Madrid (Spain), 17 October 2018
“Realizing Richard Feynman’s Dream of a Quantum Simulator”
- 246 **Physics Colloquium – Weizmann Institute of Science**
Rehovot (Israel), 11 October 2018
“Probing and Exploring Quantum Matter Using Ultracold Atoms in Optical Lattices”
- 245 **ICTP Summer School “Collective Behaviour in Quantum Matter”**
Trieste (Italy), 5-6 September 2018
“Introduction to Ultracold Atoms in Optical Lattices”

- 244 GRC Quantum Science**
Easton (USA), 29 July – 2 August 2018
“Large Scale Quantum Simulations Using Ultracold Atoms in Optical Lattices”
- 243 ICAP 2018**
Barcelona (Spain), 23-27 July 2018
“Probing Topological Order and Hidden Magnetism in Ultracold Quantum Gases”
- 242 CLEO – Invited Lecture**
San Jose (USA), 14-17 May 2018
“Large Scale Quantum Simulations Using Ultracold Atoms in Optical Lattices”
- 241 Symposium on Quantum Science and Engineering**
Technion, Haifa (Israel), 7-8 May 2018
“Large Scale Quantum Simulations Using Ultracold Atoms in Optical Lattices”
- 240 Statistical Mechanics Out Of Equilibrium**
Princeton (USA), 30 April – 2 May, 2018
“Probing Many-Body Localization using Ultracold Quantum Gases”
- 239 Nonthermal Quantum Systems**
Boston (USA), 11-15 March 2018
“Probing Many-Body Localization using Ultracold Quantum Gases”
- 238 APS March Meeting – Invited Talk**
Los Angeles (USA), 8 March 2018
“Probing Many-Body Localization using Ultracold Quantum Gases”
- 237 Boltzmann Lecture**
SISSA, Trieste (Italy), 20 February 2018
“Probing the Frontiers of Statistical Physics Using Ultracold Atoms”
- 236 Quantum Simulation & Computation**
Bilbao (Spain), 12-16 February 2018
“Large Scale Quantum Simulations Using Ultracold Atoms”
- 235 Summer School on Topological Matter**
ANU, Canberra (Australia), 15-18 January, 2018
“Realising and Probing Topology Using Ultracold Atoms in Optical Lattices”

- 234 Rutgers University, Physics Colloquium**
New Brunswick (USA), 6 December, 2017
“Large Scale Quantum Simulations Using Ultracold Atoms”
- 233 International Conference on Quantum Simulations**
Paris (France), 13-17 November 2017
“Large Scale Quantum Simulations Using Ultracold Atoms”
- 232 The Second Quantum Revolution – Symposium honouring Alain Aspect**
Berlin (Germany), 10 November 2017
“From Order to Disorder in Ultracold Quantum Gases”
- 231 Physics on Friday Colloquium**
Pisa (Italy), 3 November 2017
“Probing and Controlling Quantum Matter using Ultracold Atoms in Optical Lattices”
- 230 Onassis Lectures on Quantum physics frontiers explored with cold atoms, molecules and photons**
Heraklion (Greece), 24-27 July 2017
“Controlling and Exploring Quantum Matter using Ultracold Atoms in Optical Lattices”
- 229 Conference on Many-Body-Localization @ ICTP**
Trieste (Italy), 10-14 July 2017
“Probing Many-Body Localization from an Ultracold Atom Perspective”
- 228 Frontiers in Emergent Quantum Phenomena @ NYU**
New York (USA), 28-30 June 2017
“Large Scale Quantum Simulations Using Ultracold Atoms in Optical Lattices”
- 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** **Accademia 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 FINES 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 AQUTE Winter School on Quantum Information Processing**
Obergurgl (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, Castelveccchio (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

- 140 FORSCHA - Münchner Wissenschaftstage**
Munich, 24 June, 2022
"Vom Quantensensor zum Quantencomputer"
- 139 727. WE-Heraeus-Seminar/ Frontiers of Quantum Gas Microscopy**
Bad Honnef (Germany), Invited Talk 4-8 April 2022
"Probing Quantum Matter In- and Out-of-Equilibrium using Quantum Gas Microscopes"
- 138 Hamburg Theory Symposium**
Hamburg, 10-12 November 2021
"Probing Quantum Matter In- and Out-Of-Equilibrium on a Large Scale Atomic Quantum Simulator"
- 137 Ergodicity Breaking and Anomalous Transport in Quantum Many-Body Systems**
Dresden MPIPKS, Videoconference talk, 6 October 2021
"Probing Kardar-Parisi-Zhang Universality in Heisenberg Quantum Magnets"
- 136 Hamburg Photon Science Colloquium**
Hamburg, Videoconference colloquium, 4 June 2021
"Probing Quantum Matter on a Large-Scale Atomic Quantum Simulator"
- 135 PGI Colloquium, FZ Jülich**
Videoconference colloquium, 21 May 2021
"Probing Quantum Matter on a Large-Scale Atomic Quantum Simulator"
- 134 Hochschule München**
Videoconference, 19 March 2021
"Engineering and Probing Quantum Matter using Quantum Simulations & Munich Quantum Valley"
- 133 Fraunhofer Gesellschaft FhG**
Videoconference, 9 March 2021
"Quantum Simulation and Quantum Computing using Neutral Atoms in Optical Lattices"
- 132 ColOpt ITN Network Meeting, Münster** 18 February 2020
"Engineered Ultracold Quantum Matter - From Quantum Simulations to Novel Quantum Light-Atom Interfaces"
- 131 CAS Showcase – LMU Munich:** 16 January 2020
"Quantum Research"

- 130 **Coherence in Fermionic Matter: Fermion Pairing in Cold Atoms and Superconductors – WE Heraeus Seminar Bad Honnef**, 15-16 October 2019
“Quantum Gas Microscopy of the (Fermi) Hubbard Model”
- 129 **Spins in a Quantum 1D Multi-particle Environment**, 2-5 September 2019
“Quantum Gas Microscopy of the (Fermi) Hubbard Model”
- 128 **Colloquium University of Mainz**, 2 June 2019
“Large Scale Quantum Simulations Using Ultracold Atoms”
- 127 **Physik im Theater – Public lecture, Mainz**, 5 June 2019
„Kälter geht (fast) nicht“
- 126 **Colloquium University of Stuttgart**, 30 April 2019
“Realising Richard Feynman’s dream of a Quantum Simulator”
- 125 **Colloquium @ MIPPKS Workshop on “Anderson Localization and Interaction Effects”**, 24-25 September 2018
“Probing Many Body-Localization Using Ultracold Quantum Gases”
- 124 **DOPPLERS Meeting – Deutsche Olympiade in Physik Problemen**, 3 March 2018
“Probing and Controlling Quantum Matter at the Single Atom Level”
- 124 **Inauguration MPQ-Harvard Quantum Center**, 12 January 2018
“Large Scale Quantum Simulations Using Ultracold Atoms in Optical Lattices”
- 123 **University of Regensburg, Physik Kolloquium**, 11 December 2017
“Large Scale Quantum Simulations Using Ultracold Atoms in Optical Lattices”
- 122 **Science Fair @ LMU**, 7 June 2017
“Ultracold Quantum Gases”
- 121 **Workshop on Floquet Systems, MIPPKS Dresden**, 8-9 August 2016
“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/Essen**, 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"