

Invited Talks at Conferences (since 1993) - Wolfgang Ketterle and group members

2021

1. *Spin dynamics of ultracold atoms in optical lattices*, Virtual AMO Seminar, 2/19/2021 (Talk by W. Ketterle)
2. *New insight into light scattering by non-interacting atoms*, San Feliu, BEC2021 Conference, 9/13/2021 (Talk by W. Ketterle, virtual)

2020

1. *Measurements using ultracold atoms and molecules*
Measurements at the Limit, WE-Heraeus-Symposium, Berlin, Germany, 11/7/2020 (Talk by W. Ketterle)
2. *Quantum Computing, Science & Engineering*
SIT Conference on Insights in Technology, Schaffhausen Institute of Technology, Switzerland, 12/16/2020 (Talk by W. Ketterle)
3. *From Bose-Einstein condensation to quantum simulations of spin physics*, INO Annual Symposium 2020, Italian National Institute of Optics, virtual 11/23/2020 (Talk by W. Ketterle)

2019

1. *Bose-Einstein condensates with synthetic gauge fields*
Universal schemes of Bose-Einstein condensation (UBEC 2019), Pittsburgh, 4/5/2019 (Talk by W. Ketterle)
2. *Spinful Bosons in Optical Lattices*
Atomic Physics Gordon Conference, Newport, RI, 6/13/2019 (Talk by W. Ketterle)
3. *New forms of matter near absolute zero temperature*
69th Lindau Nobel Laureate Meeting, Germany, 7/4/2019 (Talk by W. Ketterle)
4. *Ultracold Molecules and Spinful Bosons in Optical Lattices*
FQMT '19 (Frontiers of Quantum and Mesoscopic Thermodynamics), Prague, Czech Republic, 7/18/2019 (Talk by W. Ketterle)
5. *Ultracold NaLi molecules and spin transport in optical lattices*
Bose-Einstein Condensation 2019, San Feliu, Spain, 9/10/2019 (Talk by W. Ketterle)

2018

1. *New forms of matter with ultracold atoms: superfluids and supersolid*
Inauguration Ceremony of the Max Planck Harvard Research Center for Quantum Optics, Munich, 1/12/2018
(Talk by W. Ketterle)
2. *Feshbach resonances: Early theory and experiments*
Symposium on 20 years of Feshbach Resonances in Ultracold Atomic Gases, MIT, Cambridge, 5/3/2018
(Talk by W. Ketterle)
3. *Spin-orbit coupling and supersolidity in optical superlattices*
DAMOP meeting, Fort Lauderdale, 5/31/2018
(Talk by W. Ketterle)
4. *How to dress RF photons with tunable momentum, and magnetic spin-orbit coupling*
Humboldt Kolleg, Vilnius, Lithuania, 7/30/2018
(Talk by W. Ketterle)
5. *How to dress RF photons with tunable momentum and magnetic spin-orbit coupling*
Research Frontiers in Ultracold Quantum Gases, 685. WE-Heraeus-Seminar, Bad Honnef, 12/19/2018
(Talk by W. Ketterle)

2017

1. *New forms of matter with ultracold atoms: synthetic magnetic fields and supersolidity*
Frontiers in Quantum Coherent Science, UC Berkeley, 1/9/2017
(Talk by W. Ketterle)
2. *Ultracold atoms in strong synthetic magnetic fields*
APS March Meeting, New Orleans, 3/17/2017
(Talk by W. Ketterle)
3. *New forms of matter with ultracold atoms: synthetic magnetic fields and supersolidity*
JQI 10th Anniversary Symposium, University of Maryland, 5/19/2017
(Talk by W. Ketterle)
4. *Neue Materialien aus atomaren Gasen – viel dünner als Luft*, Forschungstag 2017, Baden-Württemberg-Stiftung, Stuttgart, 6/9/2017
(Talk by W. Ketterle)
5. *Spin-orbit coupling and the supersolid stripe phase of Bose-Einstein condensates*, BEC 2017 conference, San Feliu, 9/3/2017
(Talk by W. Ketterle)
6. *New forms of matter with ultracold atoms: superfluids, supersolids and more*, DesOEQ Kickoff Meeting, Glasgow, 10/25/2017
(Talk by W. Ketterle)
7. *Supersolid, superradiance, and polar molecules*, FLEET Annual Workshop, Torquay, Australia, 11/29/2017
(Talk by W. Ketterle)

2016

1. *Quantum Simulations with Laser Assisted Tunneling*
Solvay Workshop on “Quantum Simulations with Cold Matter and Photons”,
Brussel, 2/11/2016
(Talk by W. Ketterle)
2. *Experimental Realization of the Harper-Hofstadter Model*
APS March Meeting, Baltimore, Maryland, 3/15/2016
(Talk by Colin Kennedy)
3. *Spin-Orbit Coupling and Spin Textures in Optical Superlattices*
KITPC Workshop on “Synthetic Topological Quantum Matter”, Beijing, 8/3/2016
(Talk by W. Ketterle)
4. *Ultracold atoms as quantum simulators for new materials – optical lattices, synthetic magnetic fields and topological phases*
Plenary talk at ECAMP, Frankfurt, 9/6/2016
(Talk by W. Ketterle)
5. *Superfluid Bose and Fermi gases*
Talk at “Ninety Years of Fermions”, Academia Nazionale dei Lincei, Rome,
10/20/2016
(Talk by W. Ketterle)

2015

1. *Light as a tool to study new forms of matter near absolute zero temperature*
Opening of the International Year of Light, Yearly Meeting of The Danish Physical Society, Danmarks Tekniske Universitet (DTU), Copenhagen, 1/22/2015
(Talk by W. Ketterle)
2. *Light as a tool to study new forms of matter near absolute zero temperature*
Light and Atoms, Celebration of the International Year of Light, INRIM, Torino, Italy,
1/27/2015
(Talk by W. Ketterle)
3. *Ultracold atoms in strong synthetic magnetic fields*
APS March Meeting, San Antonio, TX, 3/2/2015
(Talk by W. Ketterle)
4. *New Materials Made of Ultracold Atoms Near Absolute Zero Temperature*
Meeting of the New England American Vacuum Society, Lowell, MA, 6/1/2015
(Talk by W. Ketterle)
5. *Atoms at ultralow temperature in ultrahigh synthetic magnetic fields*
Gordon Research Conference on Atomic Physics, Newport, RI, 6/16/2015
(Talk by W. Ketterle)
6. *Topological quantum matter – a new frontier for ultracold atoms (and molecules)*
Workshop on the Grand Challenges in Quantum Fluids and Solids, Buffalo, NY,
8/7/2015
(Talk by W. Ketterle)

7. *Bose-Einstein condensation 1995 - 2015*
Biannual BEC conference, San Feliu, Spain, 9/6/2015
(Talk by W. Ketterle)
8. *Ultracold atoms as quantum simulators for new materials – optical lattices, synthetic magnetic fields and topological phases*
Photonics Middle East 2015, Texas A&M University at Qatar, Doha, Qatar, 12/13/2015
(Talk by W. Ketterle)

2014

1. *Synthetic magnetic fields for neutral atoms in optical lattices*
Frontiers of the quantum world, in honor of E. Arimondo, Florence, Italy, 3/10/2014
(Talk by W. Ketterle)
2. *Ultracold atoms as quantum simulators for new materials – optical lattices and synthetic magnetic fields*
Annual meeting of the New England Section of the APS, NES, Wentworth Institute of Technology, Boston, 11/7/2014

2013

1. *Superfluid Bose and Fermi gases*
Workshop on “Universal Themes of Bose-Einstein Condensation”, Leiden, 3/11/2013
(Talk by W. Ketterle)
2. *Superflüssige Gase nahe dem absoluten Temperatur-Nullpunkt*
Otto Stern Symposium, Hamburg, 5/22/2013
(Talk by W. Ketterle)
3. *Laser assisted tunneling in optical lattices*
International Conference on Quantum Technologies, Moscow, 7/21/2013
(Talk by W. Ketterle)
4. *Realizing the Harper Hamiltonian with laser-assisted tunneling in optical lattices*
BEC 2013, San Feliu, Spain, 9/9/2013
(Talk by W. Ketterle)
5. *New materials and quantum simulations*
Army Science Planning & Strategy Meeting, Bolger Conference Center, Potomac, 9/25/2013
(Talk by W. Ketterle)
6. *Cold atoms and many-body physics*
3rd Humboldt Award Winners' Forum, “Frontiers in Quantum Optics”, Bonn, 10/10/2013
(Talk by W. Ketterle)

2012

1. *New forms of matter close to absolute zero temperature*
Public Lecture, Aspen, 1/11/2012
(Talk by W. Ketterle)

2. *Superfluid Bose and Fermi gases*
APS March Meeting, tutorial, Boston, 2/26/2012
(Talk by W. Ketterle)
3. *Superflüssige Gase nahe dem absoluten Temperatur-Nullpunkt*
Public evening lecture at the German Physical Society meeting, Stuttgart, 3/15/2012
(Talk by W. Ketterle)
4. *Ultracold fermions with repulsive interactions and Bragg scattering in an optical lattice*
ICAP 2012, Palaiseau, France, 7/23/2012
(Talk by W. Ketterle)

2011

1. *Superfluidity in an Atomic Gas of Strongly Interacting Fermions*
APS March meeting, special session on "Perspectives on 100 years of superconductivity", Dallas, 3/21/2011
(Talk by W. Ketterle)
2. *Noise measurement, repulsive Fermi gas and Bragg scattering of bosons*
IFRAF Mini Workshop at ENS, Paris, 9/9/2011
(Talk by W. Ketterle)
3. *Noise measurements, repulsive Fermi gas and Bragg scattering of bosons*
BEC 2011 conference, San Feliu, Spain, 9/11/2011
(Talk by W. Ketterle)
4. *Short talk at The 25th Solvay Conference on Physics "The Theory of the Quantum World", Brussels, Belgium, 10/20/2011*
(Talk by W. Ketterle)

2010

1. *Ultracold fermions with strong interactions*
Plenary talk, Physics@FOM, Veldhoven, NL, 01/19/2010
(Talk by W. Ketterle)
2. *Towards Quantum Magnetism with Ultracold Atoms*
Frontiers in Atomic Physics, Florence, Italy, 04/10/2010
(Talk by W. Ketterle)
3. *Towards Quantum Magnetism with Ultracold Atoms*
DAMOP, Houston, 05/27/2010
(Talk by W. Ketterle)
4. *Towards Quantum Magnetism with Ultracold Atoms*
Plenary talk, STATPHYS 2010, Cairns, Australia, 07/21/2010
(Talk by W. Ketterle)
5. *Towards Quantum Magnetism with Ultracold Atoms*
Plenary talk, ICAP 2010, Cairns, Australia, 07/29/2010
(Talk by W. Ketterle)

6. *Towards Quantum Magnetism with Ultracold Atoms*
Plenary talk, QFS 2010, Grenoble, France, 08/06/2010
(Talk by W. Ketterle)
7. *Characterizing many-body systems by observing density fluctuations*
QFS 2010 Satellite Workshop, Grenoble, France, 08/07/2010
(Talk by W. Ketterle)
8. *Superfluid gases near absolute zero temperature*
Symposium, Manchester, 10/13/2010
(Talk by W. Ketterle)
9. *Towards Quantum Magnetism with Ultracold Atoms*
EMMI Workshop, Darmstadt, 11/04/2010
(Talk by W. Ketterle)

2009

1. *The phase-diagram of a superfluid two-component Fermi gas*
APS March Meeting, Pittsburgh, 3/19/2009
(Talk by W. Ketterle)
2. *Fermions with strong attraction and repulsion*
Gordon Conference on Atomic Physics, Tilton, NH, 6/29/2009
(Talk by W. Ketterle)
3. *Ultracold fermions with strong interactions*
QFS meeting, plenary talk, Evanston, IL, 08/11/2009
(Talk by W. Ketterle)
4. *Ultracold fermions with strong interactions*
BEC conference, San Feliu, Spain, 09/10/2009
(Talk by W. Ketterle)

2008

1. *Strongly interacting bosonic and fermionic gases*
Latsis Symposium at EPFL, Lausanne, Switzerland, 1/28/2008
(Talk by W. Ketterle)
2. *Solid State Analogs in Bose-Condensed Gases*
DAMOP 2008, Graduate Student Thesis Session, State College, Pennsylvania,
5/27/2008
(Talk by G. Campbell)
3. *Pairing and superfluidity in a gas of strongly interacting fermions*
DAMOP 2008, State College, Pennsylvania, 5/27/2008
(Talk by W. Ketterle)
4. *RF Spectroscopy on Strongly Interacting Fermi Gases*
Workshop on Ultracold Atoms and Quark-Gluon Plasmas, Niels Bohr International
Academy and NORDITA, Copenhagen, Denmark, 6/23/2008
(Talk by M. Zwierlein)

5. *Superfluidity in a gas of strongly interacting fermions*
Plenary talk at LT 25, Amsterdam, 8/13/2008
(Talk by W. Ketterle)
6. *Designing new materials with ultracold atoms*
Keynote Talk, Julius Springer Forum on Applied Physics 2008, Cambridge, MA,
9/27/2008
(Talk by W. Ketterle)
7. *Studies of strongly interacting fermions*
Frontiers on Degenerate Quantum Gases, Beijing, China, 10/20/2008
(Talk by W. Ketterle)

2007

1. *Ultracold Atoms – Dilute Gases with Strong Interactions.*
Conference of the National Society of Black Physicists (NSBP), Boston, 2/22/07.
2. *Ultracold Atoms – Dilute Gases with Strong Interactions*
Korrelationstage (Correlation days) 2007, Dresden, Germany, 2/26/07
(Talk by M. Zwierlein)
3. *Ultrakalte Atome – verdünnte Gase mit starken Wechselwirkungen.*
Plenary Lecture, DPG-Meeting, Düsseldorf, Germany, 3/19/07.
4. *Fermionic Superfluidity with Imbalanced Spin Populations*
ECT* Workshop “Interface of Quark-Gluon Plasma Physics and Cold-Atom Physics”
Trento, Italy, 03/22/07
(Talk by M. Zwierlein)
5. *Ultracold Atoms – Dilute Gases with Strong Interactions.*
JQI Inaugural Symposium, College Park, MD
University of Maryland, 3/27/07.
6. *Fermionic Superfluidity with Imbalanced Spin Populations*
Spring Meeting of the German Physical Society, Regensburg, Germany, 3/29/2007
(Talk by M. Zwierlein)
7. *Superfluidity and BEC-BCS Crossover in an Ultracold Gas of Fermionic Atoms.*
50 Years BCS Symposium, Brown University, Providence, RI, 4/12/07.
8. *Ultracold fermionic atoms under rotation: Vortices in a high-temperature superfluid*
SUR 2007 – Superfluids Under Rotation, Jerusalem, Israel, 4/17/07.
(Talk by M. Zwierlein)
9. *Ultracold Atoms – Dilute Gases with Strong Interactions.*
KITP Workshop, Santa Barbara, 4/23.
10. *Superfluid Ultracold Fermi Gases.*
CLEO/QELS, Baltimore, 5/9/07.
11. *Superfluidity in a gas of strongly interacting fermions.*
Lorenzo Narducci Memorial Symposium, Drexel University, Philadelphia, 5/24/07.

12. *High-Temperature Superfluidity in an Ultracold Fermi Gas*
DAMOP, Calgary, Canada, 6/7/07, Thesis Prize Session
(Talk by M. Zwerlein)
13. *Fermionic Superfluidity with Imbalanced Spin Populations.*
CLEO/Europe IQEC, 6/21/07.
(Talk by M. Zwerlein)
14. *The Ground State of Imbalanced Fermi Mixtures*
A.I. Larkin Memorial Conference, Landau Institute, Chernogolovka, Russia, 6/24/07
(Talk by M. Zwerlein)
15. *Superfluidity of ultracold fermions - in a gas, in a lattice and with imbalanced populations.*
Conference on Quantum Gases, Institut Henri Poincaré, Paris, 6/27/07.
16. *Pairing and Superfluidity in Ultracold Fermi Mixtures*
Correlated Quantum Gases – Workshop, Marburg, Germany, 7/3/07
(Talk by M. Zwerlein)
17. *Recent results at MIT on ultracold Fermi gases.*
Bose-Einstein condensation 2007, San Feliu, Spain, 9/16/07
18. *The Ground State of Imbalanced Fermi Mixtures*
Control of Quantum Correlations in Tailored Matter, Schloss Reinsburg, Germany, 10/6/07.
(Talk by M. Zwerlein)

2006

1. *Fermionic Superfluidity with Mismatched Spin Populations and the Quantum Phase Transition to the Normal State.*
Workshop on Strong Correlations in Ultra-Cold Fermi Systems, Aspen 1/16/06
(Talk by M. Zwerlein)
2. *Observation of High-Temperature Superfluidity in a Gas of Fermionic Atoms*
APS March meeting, Baltimore, MD, 3/13/06
(Talk by M. Zwerlein)
3. *High-Temperature Superfluidity in an Ultracold Fermi Gas*, Symposium
“Superfluidity”, DPG/EPS-Meeting Dresden, 3/27/2006
(Talk by M. Zwerlein)
4. *Observation of High-Temperature Superfluidity in a Gas of Fermionic Atoms.*
Workshop on Cold Atoms Meet Condensed Matter, Dresden, 3/29/06.
5. *The Relative Phase of Two Spatially Separate Bose-Einstein Condensates.*
DAMOP, Knoxville, TN, 5/18/06, Thesis Prize Session
(Talk by Y. Shin)
6. *New forms of quantum matter near absolute zero temperature.*
NASA workshop “From Quantum to Cosmos”, Airlie Center, VA, 5/23/06

7. *Fermionic Superfluidity with Imbalanced Spin Populations*
Workshop "Strong Correlations in Fermi Systems", Nordita and Niels Bohr Institute, Copenhagen, Denmark, 6/14/06
(Talk by M. Zwierlein)
8. *Observation of High-Temperature Superfluidity in a Gas of Fermionic Atoms*
Gordon conference on correlated electron systems, Mount Holyoke College, South Hadley, MA, 6/19/06
(Talk by M. Zwierlein)
9. *Ultracold Fermi gases – from the experimenters' perspective*, 3 lectures, Varenna Enrico Fermi Summer School on Ultracold Fermi Gases, 6/20, 6/21, 6/22/2006
10. *Ultracold gases – from the experimenters' perspective*, 3 lectures, ICAP Summer School, Innsbruck, Austria, 7/10, 7/13, 7/14/06
11. *Superfluidity in a Gas of Fermionic Atoms.*
ICAP, Innsbruck, Austria, 7/18/06.
12. *New forms of quantum matter near absolute zero temperature.*
Meeting of the European Optical Society, Paris, 10/17/06

2005

1. *BEC of Lithium Molecules.*
DFG-Workshop on "Interactions in ultracold atomic and molecular gases", Potsdam, Germany, 03/16/05
(Talk by Martin Zwierlein)
2. *Condensates of Fermion Pairs.*
OCTS Workshop on Strongly Interacting Quantum Gases, Columbus, Ohio, 4/19/05.
(Talk by Martin Zwierlein).
3. *Ultracold Gases – Quantum Mechanics Near Absolute Zero Temperature.*
Einstein Symposium, Zürich, 6/9/05
4. *Observation of High-Temperature Superfluidity in ultracold Fermi gases.*
Gordon Conference on Atomic Physics, Tilton, NH, 6/28/05.
5. *Vortices and Superfluidity in a Strongly Interacting Fermi Gas.*
ESF Workshop "New phenomena in superfluidity and superconductivity", Camerino, Italy, 07/04/05.
(Talk by Martin Zwierlein)
6. *Vortices and Superfluidity in a Strongly Interacting Fermi Gas.*
ETH Zurich/QSIT Workshop "Control and Manipulation of Quantum Systems", Ascona, Switzerland, 07/10/05.
(Talk by Martin Zwierlein)
7. *Vortices and Superfluidity in a Strongly Interacting Fermi Gas.*
Conference on Low Temperature Physics (LT 24), Orlando, FL, 8/12/05
8. *Bose-Einstein Condensation of Atoms, Molecules, and Fermion Pairs.*
BEC 2005 Euro Conference, San Feliu, Spain, 9/12/05

9. *Bose-Einstein Condensates and Other New Forms of Matter Near Absolute Zero Temperature.*
Nobel Conference Gustavus Adolphus College, St. Peter, 9/27/05
10. *New Forms of Quantum Matter Near Absolute Zero Temperature.*
Charles Townes Symposium, Berkeley, 10/7/05

2004

1. *Sympathetic Cooling in Atom Traps: Road to Fermi Degeneracy and Bose-Einstein Condensation of Molecules*
Physics of Quantum Electronics Conference, Snowbird, Utah, 1/5/04
(Talk by Subhadeep Gupta)
2. *Bose-Einstein condensation of lithium molecules and studies of a strongly interacting Fermi gas*
Workshop on Ultracold Fermi Gases, Levico, Italy, 3/3/04
3. *BEC of Lithium Molecules.*
DFG-Workshop on "Interactions in ultracold atomic and molecular gases",
Potsdam, Germany, 03/16/04
(Talk by Martin Zwierlein)
4. *Bose-Einstein-Kondensation von Atomen und Molekülen*
Plenary talk, March Meeting of the German Physical Society, Regensburg,
Germany, 3/8/04
5. *Observation of Bose-Einstein Condensation of Molecules*
APS March Meeting, Montreal, Canada, 3/23/04
6. *Condensation of pairs of fermionic lithium atoms below and above a Feshbach resonance*
Conference on Quantum Gases, Institute for Theoretical Physics (ITP) Santa
Barbara, 5/10/04
7. *New frontiers with ultracold gases*
DAMOP, Tucson, Arizona, 5/27/04
8. *New frontiers with ultracold gases*
ICAP (International Conference on Atomic Physics), Rio de Janeiro, Brazil, 7/25/04

2003

1. *Bose-Einstein Condensates in Magnetic Waveguides.*
The 5th Laser Cooling Workshop, Awaji Yumebutai, Japan, 1/7/2003.
(Talk by Aaron Leanhardt).
2. *Ultrakalte Quantengase – die kälteste Materie im Universum.*
Plenary Talk, Spring Meeting of the German Physical Society (DPG), Hannover,
3/26/2003.

3. *Small Scales and Short Times: Two Recent Experiments with Bose-Einstein Condensates.*
International Workshop Quantum Gases, Schloß Reisenburg, Günzburg, Germany, 4/2 – 4/5/2003.
(Talk by Dominik Schneble).
4. *Quantum Effects on a Macroscopic Scale: BEC in Dilute Atomic Gases.*
Symposium in honor of Prof. G. Leung, Physics Department, University of Massachusetts, North Dartmouth, MA, 4/11 – 4/12/2003).
(Talk by Dominik Schneble).
5. *The Strongly Interacting Fermi Gas near a Feshbach Resonance.*
Invited talk, workshop on “Correlation Effects in Bose Condensates & Optical Lattices, University of Minnesota, Minneapolis, 5/2 – 5/4/2002.
(Talk by K. Dieckmann).
6. *Strongly Interacting Degenerate Fermi Gases.*
34th Meeting of the Division of Atomic, Molecular and Optical Physics, Boulder, Colorado, 5/20 – 5/24/2003.
(Talk by S. Gupta).
7. *Single Mode Atom Chips for BECs.*
Gordon Conference on Atomic Physics, Tilton, NH, 6/19/2003.
(Talk by D.E. Pritchard).
8. *Recent Experiments with Ultracold Quantum-Degenerate Gases.*
35th Conference of the European Group for Atomic Spectroscopy (EGAS), Universite Libre de Bruxelles, Brussels, Belgium, 7/17/2003.
(Talk by Dominik Schneble).
9. *Recent results at MIT on cold bosons and fermions.*
Bose-Einstein Condensation, EuroConference on the New Trends in Physics of Quantum Gases, San Feliu de Guixols, Spain, 9/13 – 9/18/2003.
10. *Experiments with a Strongly Interacting Fermionic Lithium Gas.*
Mini-workshop on Dilute Strongly Interacting Fermi Gases, Institute for Nuclear Theory (INT), University of Washington, Seattle, Washington, 11/19/2003.
(Talk by S. Gupta).

2002

1. *Bose-Einstein Condensation: Quantum Mechanics Near Zero Temperature.*
Symposium “Experiments with Ultracold Atoms”, AAAS Annual Meeting, Boston, 2/16/2002
2. *Bose-Einstein Condensates: Matter Made of Matter Waves.*
Topical Lecture, AAAS Annual Meeting, Boston, 2/16/2002.
3. *The Bose-Einstein condensate: A superfluid gas of coherent atoms.*
APS March Meeting, Indianapolis, 3/19/2002.
4. *Bose-Einstein condensates –superfluid gases.*
Plenary talk, CLEO/QELS, Long Beach, 5/22/2002.

5. *Gaseous Bose-Einstein condensates -a nanokelvin laboratory for quantum physics.*
Plenary talk, DAMOP, Williamsburg, 5/29/2002.
6. *Contrast Interferometry with Bose-Einstein Condensates to Measure h/m and α .*
Workshop on Recoil Induced Effects and BEC, Gargnano del Garda, Italy, 6/23-6/26/2002.
Talk by S. Gupta.
7. *Recent work on quantum-degenerate alkali gases at MIT.*
Workshop on quantum-degenerate gases, Trento, Italy, 7/17/2002.
8. *The Bose-Einstein Condensate- a Superfluid Gas of Coherent Atoms.*
International Conference on Atomic Physics (ICAP), Cambridge, MA, 7/28/2002.
9. *A continuous BEC source and other recent work on quantum degenerate alkali gases at MIT.*
7th Workshop on Atom Optics and Interferometry, Lunteren, The Netherlands, 10/2/02.

2001

1. *Collective enhancement and suppression in Bose-Einstein condensates.*
Winter Colloquium on the Physics of Quantum Electronics, Snowbird, Utah, 1/8-11
2. Japan workshop on cold atoms
(Talk by A. Chikkatur)
3. *Amplification of Atoms and Light in Bose-Einstein condensates.*
plenary talk, APS April Meeting, Washington, D.C., 4/28 – 5/1, 2001
4. *Experiments with a Bose-Einstein Condensate in an Optical Trap.*
DAMOP 2001, London, Ontario, Canada, 5/16 – 5/19, 2001.
(Talk by T. Gustavson)
5. *Vortex Matter in Bose-Einstein Condensates.*
International Conference on Squeezed states and Uncertainty Relations, Boston, MA, June 4 – 8 (ICSSUR 2001)
(Talk by Chandra Raman)
6. *Optical trapping and manipulation of Bose-Einstein condensates.*
15th International Conference on Laser Spectroscopy, Snowbird, Utah, June 10-15, 2001 (ICOLS 01)
(Talk by T. Gustavson)
7. *Coherence and collective behavior in Bose-Einstein condensates.*
plenary talk, Eight Rochester Conference on Coherence and Quantum Optics, Rochester, June 13 -16.
8. *Spinning and shaping condensates with laser beams.*
Atomic Physics Gordon conference, Williamstown, MA, June 17 – 22.
9. *Bose-Einstein condensation – quantum mechanics near zero temperature.*
plenary talk, Conference on statistical physics STATPHYS 21, Cancún, Mexico, July 18.

10. *Recent BEC experiments at MIT – BEC in large-volume optical traps and interference of vortices.*
International Workshop “Quantum Gases”, Insel Reichenau, Germany, July 19 – July 21, 2001.
(Talk by A. Görlitz)
11. *Vortex Excitations in a Bose-Einstein Condensate.*
International Symposium on Foundations of Quantum Mechanics (ISQM-Tokyo '01), Hatoyama, Japan, 8/27-30.
(Talk by Shin Inouye)
12. *Optical Manipulation of Bose-Einstein Condensates.*
"Bose-Einstein Condensation", EuroConference on the Physics of Atomic Gases at Low Temperatures, San Feliu de Guixols, Spain, September 15-20.
(Talk by A. Görlitz)
13. *Vortex Lattices in Bose-Einstein Condensates.*
"Bose-Einstein Condensation", EuroConference on the Physics of Atomic Gases at Low Temperatures, San Feliu de Guixols, Spain, September 15-20.
(Talk by J. Abo-Shaeer)
14. *Superfluidity and Coherence in Bose-Einstein Condensates.*
Nobel Jubilee Symposium, Gothenborg, Sweden, December 4.
15. *When atoms behave as waves: Bose-Einstein condensation and the atom laser.*
Nobel Lecture, Stockholm, Sweden, December 8.

2000

1. *Spinor Bose-Einstein Condensates: Ground States, Metastability, and Quantum Tunneling.*
RTC and ITAMP Workshop on Multi-Component and Spinor Bose-Einstein Condensates of Trapped Dilute Vapors, Rochester, 1/6-8/2000.
(Talk by A. Chikkatur)
2. *When Laser-Like Atoms Meet Laser Light.*
2000 AAAS Annual Meeting and Science Innovation Exposition.
2/21/2000, Washington DC.
3. Japan, Spring 2000
(Talk by A. Görlitz)
4. *Exciting Bose-Einstein condensates with laser light.*
plenary talk, meeting of the condensed matter division of the European Physical Society (EPS-CMD18), Montreux, 3/16, 2000.
5. *Optical Properties of a Dressed Bose-Einstein condensate.*
ITAMP(Institute of Theoretical Atomic Molecular Physics) Workshop, Cambridge, MA, April 5, 2000
(Talk by Shin Inouye)
6. *Bose-Einstein-Kondensation - Quantenmechanik am absoluten Nullpunkt.*
plenary talk, German Physical Society meeting, 4/5, Bonn.

7. *When coherent light interacts with coherent atoms - optical properties of Bose-Einstein condensates.*
5/11, QELS, San Francisco.
8. *Shedding light on Bose-Einstein condensates.*
International Symposium on Quantum Fluids and Solids, QFS 2000, University of Minnesota, June 6-11, 2000.
(Talk by D.M. Stamper-Kurn)
9. *New light on Bose-Einstein condensates.*
ICAP 2000, Florence, June 4-9, 2000.
10. *Microscopic and Macroscopic Probes of Superfluidity in Bose Gases.*
CAP Congress, York University, 6/4 - 6/6/200.
(Talk by C. Raman)
11. *Experimental Studies of Superfluidity in Gaseous Bose-Einstein condensates.*
Workshop on Rotating Bose-Einstein condensates, Trento, June 11-13, 2000.
(Talk by J.M. Vogels)
12. *Peeking and poking at a new quantum fluid: studies of gaseous Bose-Einstein condensates in magnetic and optical traps.*
DAMOP 2000, Storrs, Connecticut, 6/14-17/2000.
(Talk by D.M. Stamper-Kurn).
13. *New Light on Bose-Einstein Condensates.*
DAMOP 2000, Storrs, Connecticut, 6/14-17/2000.
14. *Experiments on Bose-Einstein condensation.*
Three lectures at the Summer School on Bose-Einstein condensates and atom lasers, Cargese, Corse (France), July 17-25, 2000.
15. *Recent experiments with Bose-Einstein condensates: Amplification of light and matter waves, superfluidity, and RF transitions in an optical trap.*
6th Workshop on Atom Optics and Interferometry, Cargese, Corse (France), July 26-29, 2000.
(Talk by T.L. Gustavson)
16. *Optical Properties of a Bose-Einstein Condensate and Phase-Coherent Matter Wave Amplification.*
Gordon Research Conference "Molecular Electronic Spectroscopy and Dynamics", New London, New Hampshire, July 30 – August 4, 2000.
17. *Collective Enhancement and Suppression in Bose-Einstein condensates.*
2000 Atomic, Molecular and Optical Physics Research Meeting, U.S. Department of Energy, Office of Basic Energy Sciences, Warrenton, Virginia, September 26-29, 2000.
18. *Probing and manipulating Bose-Einstein condensates with laser light.*
16th Interdisciplinary Laser Science Conference (ILS-XVI), Providence, RI, October 22-26, 2000.
(Talk by A. Görlitz)

19. *Bose-Einstein condensation - identity crisis for indistinguishable particles.*
Symposium, One hundred years of the Quantum: from Max Planck to entanglement.
The University of Puget Sound, Tacoma, Washington, October 29-30, 2000.
20. *Exciting Bose-Einstein condensates with laser light.*
Centenary Meeting "100 Years of Quantum Theory", Berlin, December 13, 2000.

1999

1. *Spinor condensates and Bragg spectroscopy.*
Workshop on Bose-Einstein condensation and degenerate Fermi gases,
JILA, Boulder, 2/10-2/12/1999.
2. *The Physics of Cold Atoms at Millikelvin, Microkelvin and Nanokelvin Temperatures.*
Tutorial at the APS Centennial Meeting, Atlanta, 3/21-3/26/1999.
3. *Spinor Bose-Einstein Kondensate und optische Auskoppler*
Spring meeting of the German Physical Society.
Heidelberg, Germany, March 15-19, 1999.
(Talk by J. Stenger).
4. *Spinor condensates and Bragg spectroscopy.*
Symposium on "Quantum phenomena of ultracold atoms and their applications",
Spring meeting of the Physical Society of Japan, Hiroshima, 3/29/1999.
(Talk by S. Inouye)
5. *Keeping the focus on Bose-Einstein condensates.*
Fysica '99, Nederlandse Natuurkundige Vereniging, Delft, Netherlands, 4/14/1999.
6. *Recent Results on BEC: Quantum Tunneling, Bragg Spectroscopy and Superradiance.*
1999 NASA/JPL International Conference on Fundamental Physics in Space.
Washington DC, 4/29-5/1/1999.
7. *Dilute Bose-Einstein condensates - early predictions and recent experimental studies.*
C.N. Yang Symposium, Stony Brook, 5/21-22/1999.
8. *Bragg spectroscopy and superradiant Rayleigh scattering in a Bose-Einstein condensate*
ICOLS, Innsbruck, Austria, 6/7-11/1999.
(Talk by J. Stenger).
9. *Manipulating and probing Bose-Einstein condensates with light.*
Gordon Conference on Atomic Physics, Plymouth, NH, July 7, 1999.
(Talk by D.M. Stamper-Kurn).
10. *New optical tools to study BEC.*
Conference on Macroscopic Quantum Coherence Phenomena, Trieste, 7/5-9/1999.
(Talk by C. Raman)
11. *Recent Experiments in Bose-Einstein condensation: Superradiance and critical velocities.*
1999 Fundamental Problems in Quantum Theory Workshop, 8/8-13/99, Baltimore.
(Talk by R. Onofrio)

12. *Collisions at nanokelvin temperatures in Bose-Einstein condensates.*
XXI International Conference on The Physics of Electronic and Atomic Collisions (ICPEAC) in Sendai, Japan, 1999, plenary talk 7/24/1999.
13. Les Houches Summer School on Bose-Einstein condensation, four lectures, 7/27 – 8/3/1999.
14. *Bose-Einstein condensation in dilute atomic gases – atomic physics meets condensed matter physics.*
XXII International Conference on Low Temperature Physics, 8/4/1999, Espoo, Finland, Plenary Talk.
15. *Recent Advances in Bose-Einstein Condensation.*
EPS-11: Trends in Physics, 9/10/1999, London, Plenary Talk.
16. *Keeping the focus on Bose-Einstein condensates.*
European research conference on Bose-Einstein condensation, San Feliu, Spain, 9/13/99.
17. *Probing Bose-Einstein condensates with optical Bragg scattering.*
Proceedings of the Tenth Conference on Many-Body Physics (MBX), Seattle, Sept. 1999.
(Talk by D.M. Stamper-Kurn)
18. *Bose-Einstein-Kondensation in ultrakalten Gasen – eine neue Form der Materie.*
73th Bunsen Colloquium for Physical Chemistry, Heidelberg, Germany, 10/16/1999.
19. *What does a Bose-Einstein condensate look like?*
International School of Quantum Electronics, 27th Course, Bose-Einstein condensates and Atom Lasers, Erice, Sicily, 10/19-24/1999, two lectures.
20. *Spectroscopy of a Bose-Einstein condensate.*
Inspired by Herzberg: Spectroscopy for the Year 2000, Symposium in memory of Gerhard Herzberg, Cornwall, Ontario, Canada, 10/30 – 11/3.

1998

1. *Bose-Einstein condensation of sodium atoms and the realization of an atom laser*
SPIE conference Photonics West, San Jose, California, Jan. 7, 1998.
(Talk by H.-J. Miesner)
2. *Dynamic Properties of Bose-Einstein Condensates: Formation and Sound at Non-zero Temperatures*
ITP Conference on Bose-Einstein Condensation, Institute for Theoretical Physics, Santa Barbara, March 30 - April 4, 1998.
3. *Optical Confinement of Bose-Einstein Condensates and the Observation of Feshbach Resonances*
ITP Conference on Bose-Einstein Condensation, Institute for Theoretical Physics, Santa Barbara, March 30 - April 4, 1998 (Talk by J. Stenger).
4. *Studies of magnetically and optically confined Bose-Einstein condensates*
International Quantum Electronics Conference IQEC'98, San Francisco, May 5-7, 1998. (Talk by S. Inouye).

5. *Recent Results on Bose-Einstein condensation*
DAMOP, 1998 Annual Meeting of the Division of Atomic, Molecular and Optical Physics, Santa Fe, May 27-30, 1998. (Talk by H.-J. Miesner).
6. *The new physics of optically trapped Bose-Einstein condensates*
Symposium on Quantum Fluids and Solids (QFS 98), Amherst, Massachusetts, June 9-14, 1998.
7. *The new physics of optically trapped Bose-Einstein condensates*
Workshop Quantengase, Insel Reichenau (Konstanz), June 22-24, 1998 (Talk by J. Stenger).
8. *Making, probing and understanding Bose-Einstein condensates.*
Four lectures at the Summer School on Bose-Einstein condensation in atomic gases, International School of Physics "Enrico Fermi", Varenna, Italy, July 7-18, 1998.
9. *Bose-Einstein condensation, atomic coherence and the atom laser.*
Sixth European Conference on Atomic and Molecular Physics (ECAMP VI), Siena, Italy, 14-18 July 1998.
10. *Experiments with optically confined Bose-Einstein condensates*
Conference on "Trapped Charged Particles and Fundamental Physics", Monterey, Aug. 30 - Sept. 4, 1998 (Talk by H.-J. Miesner).
11. *New experiments with optically confined Bose-Einstein condensates*
European Research Conference on Quantum Optics, Castelvecchio Pascoli, Italy Sept 29 - Oct. 4, 1998 (Talk by H.-J. Miesner).
12. *Recent advances in Bose-Einstein condensation.*
CLEO/Europe-EQEC'98, Glasgow, Scotland, Sept. 13-18, 1998.
13. *The new physics of optically trapped Bose-Einstein condensates.*
Annual meeting of the section for atomic physics and quantum electronics of the Dutch physical society, Lunteren, 5-6 November 1998.

1997

1. *Bose-Einstein Condensation in a Weakly Interacting Gas - Basics and Recent Results*
Winter Colloquium on the Physics of Quantum Electronics, Snowbird, Utah, 1/12-15.
2. *Bose-Einstein Condensates: Laser-like Atoms*
Workshop on Bose-Einstein Condensation, Auckland, New Zealand, Feb. 11-12 (Talk by M.-O. Mewes).
3. *Experiments with a degenerate Bose gas*
Photonics West, SPIE Conference 2995 (Atom Optics), San Jose, California, Feb. 10-12 (Talk by C.G. Townsend)
4. *Bose-Einstein-Kondensate - eine neue Form der Quantenmaterie*
Spring Meeting of the German Physical Society Meeting, Mainz, March 3-6 (Talk by M.-O. Mewes).

5. *Bose-Einstein Condensation in Trapped Atomic Na.*
APS March Meeting, Kansas City, March 16.
6. *Bose-Einstein-Kondensate - eine neue Form von Quantenmaterie.*
Annual Meeting of the German Physical Society, Munich, March 18.
7. *Bose-Einstein Condensates - "Laser-like" Atoms.*
Institute of Physics Congress 97, Leeds, 3/25.
8. *Experimental observations on BEC.*
Mini-Symposium on Bose-Einstein Condensation, Helsinki, Finland 3/26-27.
9. *I.I. Rabi Prize Lecture: Bose-Einstein condensates - matter with laser-like properties.*
DAMOP, 1997 Annual Meeting of the Division of Atomic, Molecular and Optical Physics, Washington, April 18-21.
10. *Latest results in Bose-Einstein condensation.*
Quantum Electronics and Laser Science Conference (QELS), Baltimore, May 18-23.
11. *Single-Mode Atoms: Bose-Einstein Condensation and the Atom Laser.*
Gordon Conference on Atomic Physics, New England College, June 30, 1997.
12. *Experimental Studies of a New Quantum Fluid: Bose-Einstein Condensation of Sodium Atoms*
European Research Conference on Bose-Einstein Condensation, Il Ciocco, Italy, July 12-17, 1997.
13. *Recent experimental results with Bose condensed atoms*
Symposium on Quantum Fluids and Solids (QFS 97), Paris, July 20-26, 1997.
14. *Macroscopic Matter Waves: Bose-Einstein Condensate and Atom Laser*
Gordon Research Conference on Nonlinear Optics and Lasers, New London, New Hampshire, July 27-31 (Talk by H.-J. Miesner).
15. *Matter made of matter waves: Bose-Einstein condensation and the atom laser*
Symposium on "The Advancing Frontiers of Condensed Matter Science", Philadelphia, October 13-14, 1997.
16. *When atoms behave as waves: Bose-Einstein condensation and the atom laser.*
1997 OSA Annual Meeting, Long Beach, October 12-17, 1997.
17. *When atoms behave as waves: Bose-Einstein condensation and the atom laser.*
Meeting of the American Institute of Physics Corporate Associates, Dallas, October 27-28, 1997.

1996

1. *Bose-Einstein-Kondensation in ultrakalten atomaren Gasen*
Annual Meeting of the German Physical Society, Regensburg, Germany, March 25-29.
2. *Observation of Bose-Einstein condensation in a gas of sodium atoms*
Workshop on "Collective effects in ultracold atomic gases", Les Houches, France, April 1-5.

3. *Observation of Bose-Einstein condensation in ultracold atomic gases*
15th General Conference of the Condensed Matter Division of the European Physical Society, Baveno-Stresa, Italy, April 22-25.
4. *BEC: identiteitscrisis voor atomen*
Spring Meeting Nederlands Natuurkundige Vereniging (Dutch Physical Society), Utrecht, The Netherlands, April 16 (Talk by N.J. van Druten).
5. *Bose-Einstein condensation in a gas of sodium atoms*
DAMOP, 1996 Annual Meeting of the Division of Atomic, Molecular and Optical Physics, Ann Arbor, MI, May 15-18.
6. *Bose-Einstein condensation in a gas of sodium atoms*
DAMOP, 1996 Annual Meeting of the Division of Atomic, Molecular and Optical Physics, Ann Arbor, MI, May 15-18, AMO Thesis Award Symposium (Talk by K. Davis).
7. *Bose-Einstein condensation of sodium atoms*
CLEO/QELS'96, Anaheim, California, June 5 (Talk by N.J. van Druten).
8. *Bose-Einstein Condensation of Dilute Atomic Gases*
Gordon Conference on Laser Interactions with Materials, Plymouth, New Hampshire, June 9-14.
9. *Bose-Einstein condensation in an almost ideal gas*
CAP 96, Canadian Association of Physicists, 51st Annual Congress, Ottawa, Canada, June 16-19.
10. *BEC and prospects for precision measurements*
Conference on Precision Electromagnetic Measurements (CPEM '96), Braunschweig, Germany, June 18 (Talk by N.J. van Druten).
11. *Bose-Einstein condensation in a gas of sodium atoms*
XX International Quantum Electronics Conference IQEC'96, Sydney, Australia, July 14-19.
12. *Properties of a weakly interacting BEC.*
U.S. Workshop on Bose-Einstein Condensation, JILA, Boulder, Colorado, July 29-31 (Talk by M.-O. Mewes)
13. *Bose condensates - a new form of quantum matter*
ZICAP - 15th International Conference on Atomic Physics, Amsterdam, Aug. 5-9.
14. *Bose-Einstein condensation of sodium atoms.*
XXIth International Conference on Low Temperature Physics (LT 21) 1996, Prague, Czech Republic, Aug. 8-14.
15. *What is Bose-Einstein Condensation (BEC)?*
Topical Group Workshop, ITAMP, Cambridge, MA, Aug. 19-30.
16. *Bose-Einstein condensation in a gas of sodium atoms*
CLEO/Europe - EQEC'96, Hamburg, Germany, Sept. 8-13.

17. *Bose-Einstein condensation in a gas of sodium atoms*
General meeting of the European Physical Society (EPS-10), Sevilla (Spain), Sept. 12.
18. *Bose-Einstein condensates: a new form of quantum matter*
OSA/ILS-XII, Rochester, NY, Oct. 20-25.
1996 OSA Annual Meeting.
19. *Bose-Einstein Condensation*
Symposium on Frontiers of Science, National Academy of Sciences, Irvine, California, Nov. 7-9.

1995

1. *Evaporative cooling of magnetically trapped sodium*
DAMOP, 1995 Annual Meeting of the Division of Atomic, Molecular and Optical Physics, Toronto, May 16-19.
2. *Evaporative cooling of magnetically trapped sodium atoms*
Research conference on Bose-Einstein condensation, Mont Ste. Odile, France, June 16-21.
3. *Evaporative Cooling of Sodium Atoms*
Gordon Conference on Atomic Physics, Wolfeboro, New Hampshire, July 2-7.
4. *Evaporative Cooling of Sodium Atoms*
Mini-Symposium on Bose-Einstein condensation, ITAMP, Cambridge, MA, August 11 (Talk by M.-O. Mewes).
5. *Bose-Einstein condensation of sodium atoms*
Fall meeting of the Section "Atomic Physics and Quantumelectronics" of the Nederlandse Natuurkundige Vereniging (Dutch Physical Society), Lunteren, The Netherlands, Nov. 17 (Talk by N.J. van Druten).

1994

1. *Cooling and trapping of neutral atoms*
The Future of Spectroscopy: From Astronomy to Biology. Quebec, Canada, Sept. 26-28.
2. *Dark cold atoms at high densities*
International Quantum Electronics Conference (IQEC), Anaheim, California, May 8-13.

1993

1. *Dark spontaneous-force optical trap*
OSA Annual Meeting, Toronto, Canada, October 3-8.
2. *Kalte Atome hoher Dichte - neue (und alte) Perspektiven*
Kolloquium des DFG-Schwerpunktprogramms "Präzisions-Spektrometrie mit laserpräparierten Atomen und Ionen", Wachtberg-Niederbachem, Germany, May 17-19.
3. *Kalte Natrium-Atome hoher Dichte in einer "dunklen" Lichtdruckfalle*
Annual Meeting of the German Physical Society, Berlin, Germany, March 15-19.

4. *Towards higher densities of cold atoms: Intense slow atom beams and dark light traps*
Seminar on "Fundamentals of Quantum Optics III", Fifth Meeting on Laser Phenomena, Kühtai, Austria, March 7-13, 1993.