Invited talks and seminars

1. Quantum link models and ladders,
   Workshop of Dynamical gauge fields,
   June 2019
   Zurich, Switzerland

2. Polar gases from supersolids and rotons to peculiar disorder models,
   Colloquium,
   May 2019
   Heidelberg, Germany

3. Dynamics of one-dimensional lattice gases with power-law interactions,
   3rd International Symposium on "Novel states in correlated condensed matter - from model systems to real materials",
   March 2019
   Bad Neuenahr, Germany

4. Disordered models with power-law hops,
   Cold Atom Workshop 2018,
   November 2018
   Bilbao, Spain

5. Rotons and peculiar disordered models,
   International Symposium on Many-body Physics and Quantum Technologies,
   October 2018
   Moscow, Russia

6. Disordered models with power-law hops,
   Conference on Quantum Simulations with Atoms and Light,
   August 2018
   Aarhus, Denmark
7. Droplets and rotons in dipolar Bose-Einstein condensates,
   Conference of Ultracold atoms in optical lattices,
   July 2018
   Cali, Colombia

8. Disordered models with power-law hops,
   Conference on Long-range interactions,
   June 2018
   Hannover, Germany

9. Droplets and rotons in dipolar Bose-Einstein condensates,
   Conference of Recent Trends in cold and ultra cold atoms,
   March 2018
   Guwahati, India

10. The world of ultra cold temperatures
    Popular talk invited by Prof. T. Mishra,
    March 2018
    Guwahati, India

11. Rotons, quantum fluctuations, and peculiar disorder models in dipolar
gases
    Invited talk by Prof. R. Nath,
    March 2018,
    Pune, India

12. Droplets, rotons, and peculiar disorder models in dipolar gases
    Conference on Long-range interactions
    December 2017
    São Carlos (Brazil)

13. Droplets and rotons in dipolar Bose-Einstein condensates
    Invited talk by L. Tarruell,
    November 2017
14. Dipolar gases: droplets, rotons and peculiar disorder models
Conference DIP-Quantum 2017,
October 2017
Jerusalem (Israel)

15. The physics of ultra-cold gases
QMSC 2017 - Quantum Metrology Students Conference,
September 2017
Turin (Italy)

16. Quantum fluctuations in dipolar Bose-Einstein condensates
Meeting of the Forschergruppe 2247,
June 2017
Stuttgart (Germany)

17. Quantum fluctuations in dipolar Bose-Einstein condensates
Invited talk by Prof. F. Ferlaino,
March 2017
Innsbruck (Austria)

18. Quantum fluctuations in dipolar Bose-Einstein condensates
Conference “Quantum State Engineering 2017”,
March 2017
Hannover (Germany)

19. Ultra-cold dipolar gases: quantum droplets, non-equilibrium lattice dynamics, and spin transport
Conference “Long-range interactions in the ultra-cold”,
September 2016
Ercolano (Italy)
20. The world of ultracold temperatures  
   Popular talk (invited by Prof. Rejish Nath)  
   May 2016  
   Pune (India)

21. Ultra-cold dipolar gases: quantum droplets and non-equilibrium lattice dynamics  
   Conference of Novel trends in Ultracold atoms  
   May 2016  
   Pune (India)

22. Ultra-cold dipolar gases: quantum droplets, non-equilibrium lattice dynamics, and spin transport  
   Quo Vadis BEC V,  
   May 2016  
   Bad Honnef (Germany)

23. Density-dependent gauge fields for atoms in optical lattices  
   Many-body physics in synthetic quantum systems  
   April 2016  
   Stellenbosch (South Africa)

24. Ultra-cold dipolar gases: quantum droplets, non-equilibrium lattice dynamics, and spin transport  
   Invited talk at IQOQI (by Prof. F. Ferlaino)  
   February 2016  
   Innsbruck (Austria)

25. Past, present, and future of dipolar gases  
   Frontiers of Quantum Physics 2015  
   October 2015  
   Barcelona (Spain)
26. Periodically modulated interactions and density-dependent synthetic magnetism
   FINESS 2015
   September 2015
   Sopot (Poland)

27. Modulated interactions and density-dependent magnetism
   Workshop on emergence in driven solid state and cold atom systems
   September 2015
   Hamburg (Germany)

28. Density-dependent synthetic magnetism for cold gases in optical lattices
   Invited talk at University of Mainz (by Prof. F. Schmidt-Kaler)
   July 2015
   Mainz (Germany)

29. Density-dependent synthetic magnetism for cold gases in optical lattices
   Invited talk at the Institute of Theoretical Physics of Utrecht University (by Prof. C. de Morais Smith)
   July 2015
   Utrecht (The Netherlands)

30. Density-dependent synthetic magnetism for cold gases in optical lattices
    ICTS Ligh-matter discussion meeting
    December 2014
    Kolkata (India)

31. Theory of dipolar gases
    Course at the Enrico Fermi School
    July 2014
    Varenna (Italy)
32. Ultra-cold lattice gases with density-dependent hopping
   Invited talk at the BEC Center in Trento
   June 2014
   Trento (Italy)

33. Theory of dipolar gases
   Invited lectures at the BEC Center in Trento
   June 2014
   Trento (Italy)

34. Ultra-cold lattice gases with density-dependent hopping
   Invited talk at ICFO (by Prof. M. Lewenstein)
   May 2014
   Barcelona (Spain)

35. Ultra-cold lattice gases with density-dependent hopping
   Invited talk at the Universitat Central de Barcelona (by Dr. B. Julia-Diaz)
   May 2014
   Barcelona (Spain)

36. Theory of dipolar gases
   Spring school on “Recent trends in quantum gases”
   May 2014
   Chlef (Argelia)

37. Ultra-cold lattice gases with density-depending hopping
   Symposium on ”Novel states in correlated condensed matter – from model systems to real materials”
   April 2014
   Königstein (near Frankfurt), Germany

38. Novel scenarios for quantum simulation with ultracold gases
   Invited talk by Prof. G. Morigi
39. Dipolar Bose-Einstein condensates: dBEC in optical lattices and roton-like excitations
   Workshop on Long-range interactions in the ultracold
   September 2013
   Stuttgart, Germany

40. Trapped Bose-Einstein condensates with spin-orbit coupling
   Workshop on synthetic gauge fields with atoms and photons
   July 2013
   Trento (Italy)

41. Changing the rules of the game with the dipole-dipole interactions:
   from dipolar condensates to quantum magnetism in optical lattices
   Gordon Conference on Atomic Physics 2013
   June 2013
   Newport, Rhode Island (US)

42. Polar molecules in one-dimensional optical lattices
   Conference on ”New Science with ultra-cold molecules”
   March 2013
   Santa Barbara (USA)

43. Novel features of dipolar Bose-Einstein condensates
   FINESS 2013 Conference
   February 2013
   Queenstown (New Zealand)

44. Novel scenarios for atoms in optical lattices
   Workshop on “Pushing the boundaries with cold atoms”
   January, 2013
Stockholm (Sweden)

45. Dipolar quantum gases
Invited talk at IISER by Dr. S. Sinha
December, 2012
Kolkata (India)

46. Novel scenarios for ultra-cold lattice gases
Invited talk by Prof. G. Juzeliunas
October, 2012
Vilnius (Lithuania)

47. Ultracold dipolar gases in optical lattices
International Conference on Quantum Gases of Polar Molecules and Magnetic Atoms,
August, 2012
Beijing (China)

48. Novel scenarios for ultra-cold lattice gases
Conference Quo vadis BEC? IV,
August, 2012
Bad Honnef (Germany)

49. Novel scenarios for ultra-cold lattice gases: zig-zag ladders and periodically modulated interactions
Workshop on quantum simulations with cold atoms,
July, 2012
Trieste (Italy)

50. Ultra-cold (mostly) polar gases in one-dimensional optical lattices,
Colloquium, invited by Prof. W. Hofstetter,
January 2012,
Frankfurt (Germany)
51. Ultra-cold spinor gases: from non-classical states of matter to synthetic
gauge fields
Colloquium, invited by Prof. M. Fleischhauer
November 2011
Kaiserslautern (Germany)

52. Dipolar gases in deep optical lattices
FINESS Conference
October 2011
Heidelberg (Germany)

53. Spinor gases in optical lattices
FOMO Conference
March 2011
Obergurl (Austria)

54. Spinor and dipolar lattice gases
Invited talk (Prof. A. Smerzi)
BEC Center Trento (Italy) February 2011

55. Spinor quantum gases: from parametric matter-wave amplification to
strongly-correlated lattice gases
Invited talk (Prof. E. Lundh)
University Umea (Sweden)
February 2011

56. Dipolar quantum gases
Invited talk (Prof. A. Pelster)
FU Berlin (Germany)
January 2011

57. Spinor quantum gases: from non-classical states of matter to strongly-
correlated gases
58. Spinor quantum gases: from non-classical states of matter to strongly-correlated gases
   International Symposium on Quantum Dynamics of Ultracold Atoms and Quantum Technologies
   Guangzhou (China)
   December 2010

59. Dipolar gases in deep optical lattices
   Conference on "Cold Rydberg gases and ultracold plasmas"
   Dresden (Germany)
   September 2010

60. Following the path of optics with matter waves
   Alexander von Humboldt Forum on "Science and Society in modern Europe"
   Vilnius (Lithuania)
   September 2010

61. Spinor quantum gases: from non-classical states of matter to strongly-correlated gases
   Conference on "Correlations and coherence at different scales"
   Ustron (Poland)
   September 2010

62. Spinor quantum gases: from non-classical states of matter to strongly-correlated gases
   Quantum technologies conference
   Torun (Poland)
   September 2010
63. Dipolar quantum gases in Hannover
   Invited talk by Prof. Tilman Pfau
   Stuttgart (Germany)
   August 2010

64. Theory of dipolar gases
   Les Houches Summer School on “Many-body physics with ultracold gases” (3 lectures)
   Les Houches (France)
   July 2010

65. Nonlinear phenomena in polar gases and in quasirelativistic spinor condensates
   Conference on “Nonlinear Waves–Theory and Applications”
   Beijing (China)
   June 2010

66. Parametric amplification in spinor Bose-Einstein condensates
   International WE Heraeus Research School on "Frontiers in matter wave interferometry"
   Bad Honnef (Germany)
   June 2010

67. Ultra-cold spinor gases
   Invited talk by Prof. T. Nattermann
   Köln (Germany)
   April 2010

68. Ultra-cold spinor gases
   Invited talk by Prof. H. Kroha
   Bonn (Germany)
   April 2010
69. Nonlinear phenomena in polar gases and in quasirelativistic spinor condensates
   NLQUGAS10
   Ourense (Spain)
   April 2010

70. Artificial electromagnetism: From synthetic magnetic fields to quasirelativistic physics with cold gases
   DPG Frühjahrstagung 2010
   Hannover (Germany)
   March 2010

71. Polar gases in optical lattices
   Nordforsk Network meeting on Coherent Quantum Gases,
   Hamburg (Germany)
   December 2009

72. Dipolar gases: from spinor gases to polar molecules
   Meeting on dipolar gases
   Stuttgart (Germany)
   September 2009

73. Amplification of vacuum fluctuations in trapped spinor Bose-Einstein condensates
   Invited talk by C. Pethick
   Copenhagen (Denmark)
   May 2009

74. Amplification of vacuum fluctuations in trapped spinor Bose-Einstein condensates
   Invited talk by S. Reimann
   Lund (Sweden)
   May 2009
75. Amplification of vacuum fluctuations in trapped spinor Bose-Einstein condensates
   Invited talk by G. Modugno
   Florence (Italy)
   March 2009

76. Dipolar Bose-Einstein condensates in optical lattices
   SFB-IFRAF-ACQUAO Meeting
   Les Houches (France)
   February 2009

77. Multiresonant spinor dynamics in an F=2 spinor condensate
   COCOMAT Meeting
   Günzburg (Germany),
   December 2008

78. New scenarios in the physics of ultra cold gases
   Conference on New trends in the manipulation of atoms and photons
   Shanghai (China)
   October 2008

79. Nonlinear effects in dipolar Bose-Einstein condensates
   Conference 60th Birthday of G.V. Shlyapnikov
   ENS, Paris /France)
   September 2008

80. Dipolar condensates: Nonlocal nonlinearity
   Invited talk by B. Laburthe,
   Universite Paris Nord, Paris (France),
   June 2008

81. Cold atomic gases: Bose-Einstein condensation and beyond,
   Invited talk
   IFISC, Palma de Mallorca (Spain)
June 2008

82. New scenarios in cold atomic physics,  
    Hamburg University, invited by Prof. Klaus Sengstock,  
    April 2008,  
    Hamburg (Germany)

83. Dark solitons and vortices in dipolar Bose-Einstein condensates,  
    Conference ”Nonlinear phenomena in degenerate quantum gases 2008”,  
    April 2008,  
    Toledo (Spain)

84. Cold atomic gases: from Bose-Einstein condensates to strongly-correlated systems  
    Conference FISES’08,  
    March 2008,  
    Salamanca (Spain)

85. Dipolar gases: from nonlinear atom optics to strongly-correlated systems,  
    Conference on “Control of quantum correlations in tailored matter”,  
    October 2007,  
    Reisensburg (Germany)

86. Cold atomic gases: the role of interactions,  
    Meeting of the European Graduate colleague on Quantum interference and applications,  
    September 2007,  
    Büsum (Germany)

87. Dipolar gases: theory Summer School on quantum phase transitions and non-equilibrium phenomena in cold atomic gases  
    July 2007
88. Kelvon-roton instability in vortex lines in dipolar Bose-Einstein condensates,
   Institut Henri Poincare,
   June 2007,
   Paris (France)

89. Ultracold gases: from nonlinear physics to strongly-correlated systems,
   Invited talk by Dr. J. Ruostekoski,
   May 2007,
   Southampton (U.K.)

90. Solitons and other non-linear phenomena in dipolar Bose-Einstein condensates,
   Conference on nonlinear physics in periodic structures and metamaterials,
   March 2007,
   Dresden (Germany)

91. Ultra cold quantum gases: some possibilities of control
   Workshop on condensed-matter physics with cold gases,
   March 2007,
   KITP, Santa Barbara, USA

92. Mott-insulator phases of coupled two-component Bose gases,
   APS March Meeting 2007,
   March 2007,
   Denver (USA)

93. Novel effects in the physics of dipolar gases,
   Invited talk by Dr. N. Barberá
   February 2007,
Barcelona (Spain)

94. Mott-insulator phases in non-locally coupled dipolar gases
   Meeting on disorder in quantum gases,
   January 2007,
   Barcelona (Spain)

95. Dipolar Bosonic Gases
   379. Wilhelm und Else Heraeus-Seminar on Cold Molecules
   October 2006
   Bad Honnef (Germany)

96. Dipolar and Spin-3 Bose-Einstein condensates
   Meeting ICQFT’06
   August 2006
   Hangzhou (China)

97. Spin-3 Chromium Bose-Einstein condensates
   Meeting on “Cold Atoms meet condensed matter”
   March 2006
   Dresden (Germany)

98. Spin-3 Chromium Bose-Einstein condensates
   DPG Frühjahrstagung
   March 2006
   Frankfurt (Germany)

99. Chromium Bose-Einstein condensates
   European-Australian Workshop on Quantum Optics
   February 2006
   Kioloa (Australia)
100. Chromium Bose-Einstein condensates
Invited by Prof. Yuri Kivshar
February 2006
Canberra (Australia)

101. Cold atomic gases in disordered optical lattices
Minerva Quantum Optics conference
November 2005
Eilat (Israel)

102. Dipolar gases: theory
Summer School on quantum phase transitions and non-equilibrium phenomena in cold atomic gases
July 2005
Trieste (Italy)

103. Tutorial on ultra cold atomic gases
Conference “Control of quantum correlations and tailored matter”
July 2005
Freudenstadt (Germany)

104. Two-dimensional bright solitons in dipolar Bose-Einstein condensates
CLEO/EQEC 2005 June 2005
München (Germany)

105. Gases atómicos ultrafríos : un puente entre la óptica cuántica y la física de la materia condensada
Invited by Dr. R. Férez
March 2005
Granada (Spain)

106. Ultracold atomic gases in optical lattices: a bridge between quantum optics and condensed-matter physics
Frühjahrstagung der DPG
March 2005
Berlin (Germany)

107. Ultracold atomic gases: from nonlinear physics to lattice gases
Invited by Prof. O. Lechtenfeld
January 2005
Hannover (Germany)

108. Ultracold atomic gases in optical lattices: a bridge between quantum optics and condensed-matter physics
Invited by Prof. H. Herrmann
November 2004
Stuttgart (Germany)

109. Coupled one-dimensional atomic gases in two-dimensional optical lattices
Conference “Mesoscopic phenomena in ultracold matter: From single atoms to coherent ensembles”,
October 2004,
Dresden (Germany)

110. Strongly-correlated systems in optical lattices
Conference “Disordered Systems in cold atomic gases”,
June 2004
Hannover (Germany)

111. Strongly-correlated systems in optical lattices
Invited by Prof. R. Graham,
May 2004
Essen (Germany)

112. Strongly-correlated systems in optical lattices
Invited by Prof. A. Muramatsu,
January 2004
113. Strongly-correlated systems in optical lattices
   Conference Atomic physics 2003
   December 2003
   Dresden (Germany)

114. Strongly-correlated systems in optical lattices
   Invited by Prof. M. Oberthaler,
   November 2003
   Heidelberg (Germany)

115. Dynamics of one-dimensional Bose gases
   Quantum Challenges II Conference
   September 2003
   Warsaw (Poland)

116. Dynamics of one-dimensional Bose gases
   LASPHYS’03 Conference
   August 2003
   Hamburg (Germany)

117. Introduction to the physics of ultracold atoms
   Coloquium. European Graduate College Meeting
   June 2003
   Glasgow (UK)

118. Dynamics of one-dimensional Bose gases
   Invited by Prof. M. Fleischhauer June 2003
   Kaiserslautern (Germany)

119. Ultracold atoms: From laser cooling to strongly-interacting systems
   Coloquium. Invited by Prof. A. Muramatsu
June 2003
Stuttgart (Germany)

120. From laser cooling to strongly-interacting systems
Colloquium. Invited by Prof. M. Lewenstein
May 2003
Hannover (Germany)

121. Atomic mixtures in optical lattices
Cold gases meeting
May 2003
Ringberg (Germany)

122. Dynamics of one-dimensional Bose gases
Quantum gases conference
April 2003
Gunzburg, Germany

123. Dynamics of one-dimensional Bose gases
Colloquium. Invited by Prof. G. V. Shlyapnikov
March 2003
University of Amsterdam (The Netherlands)

124. Atomos fríos en Hannover
Invited by Prof. L. Roso
February 2003
Salamanca (Spain)

125. Dipolar bosons in optical lattices
Invited by Prof. J. Walraven
September 2002
AMOLF, Amsterdam (The Netherlands)
126. Nonlinear phenomena in Bose-Einstein condensates
   Non linear guided waves and its applications conference of the Optical
   Society of America
   September 2002
   Stressa (Italy)

127. Ultracold dipolar bosonic gases
   IQEC Conference
   June 2002
   Moscow (Russia)

128. Ultracold dipolar bosonic gases
   Benasque Center of Science
   June 2002
   Benasque (Spain)

129. Towards the Tonks gas
   Invited by Prof. M. Lewenstein
   May 2002
   Hannover (Germany)

130. Dipolar bosons in optical lattices
   Gittertag
   February 2002
   Stuttgart (Germany)

131. Ultracold dipolar bosonic gases
   Invited by Dr. I. Bloch
   January 2002
   Max Planck Institut für Quantenoptik, München (Germany)

132. Ultracold dipolar bosonic gases
   Colloquium. Invited by Prof. M. Lewenstein
   December 2001
Universität Hannover (Germany)

133. Bose-Einstein condensation in trapped dipolar gases  
Invited by Prof. W. Schleich  
Universität Ulm (Germany)  
November 2001

134. La condensación de Bose-Einstein  
Invited by Prof. L. Roso  
Popular talk  
October 2001  
Salamanca (Spain)

135. Solitons and vortices in two-component Bose-Einstein condensates  
Invited by Prof. G. V. Shlyapnikov  
October 2001  
University of Amsterdam (The Netherlands)

136. Phase fluctuating Bose-Einstein condensates  
Invited by Prof. J. Walraven  
May 2001  
AMOLF, Amsterdam (The Netherlands)

137. Solitons and vortices in two component Bose-Einstein condensates  
First international workshop on “Theory of quantum gases and quantum coherence”  
June 2001  
Salerno (Italy)

138. Solitons and vortices in two component Bose-Einstein condensates  
Frühjahrstagung der DFG  
April 2001  
Berlin (Germany)
139. Solitons and vortices in two component Bose-Einstein condensates
Invited by Prof. K. Rzążewski

140. Bose-Einstein condensation in trapped dipolar gases
Invited by Prof. T. Pfau
May 2000
Universität Stuttgart (Germany)

141. Bose-Einstein Condensation in trapped dipolar gases
Frühjahrstagung der DFG
April 2000
Bonn (Germany)

142. Filamentation in cold dipolar gases
First conference on ultracold molecules
October 1999
Heidelberg (Germany)

143. Collective laser cooling of bosonic samples
Conference BEC1999
September 1999
San Feliu de Guixols (Spain)

144. Collective laser cooling of bosonic samples
Invited by Prof. K. Rzążewski
June 1999
CFT Warsaw (Poland)

145. Collective laser cooling of bosonic samples
Frühjahrstagung der DFG
April 1999
Heidelberg (Germany)
146. A "Dielectric" Mirror for atoms
   IV Conference on Atom Optics and Atom Interferometry
   June 1997
   Oxford (UK)