INVITED TALKS AT INTERNATIONAL CONFERENCES

1. DARPA LUMOS, Review Meeting, Arlington, VA, USA – Virtual
2. AFOSR MURI, Review Meeting, New York, USA – Virtual
   “Non-reciprocity in photonic integrated circuits based on silicon nitride” (Invited talk) Sept. 2022
3. Huawei Workshop on Novel Photonics Technologies, Basel, Switzerland
   “Hybrid Integrated nonlinear photonics: from chip-scale frequency combs, frequency agile lasers to erbium integrated waveguide amplifiers” (Invited talk) Sept. 2022
4. 10th EPS-QEOD Euro photon 2022, Hannover, Germany
   “Silicon nitride integrated photonics” (Invited talk) Sept. 2022
5. ICO-25, OWLS-16 Dresden, Germany – Virtual
   “Hybrid integrated nonlinear photonics: from chip-scale frequency combs to cryogenic interconnects” (Keynote talk) Sept. 2022
6. DARPA DRINQS – Virtual
   “Extending coherence in non-stationary Kerr solitons” (Invited talk) July 2022
7. GRC Ventura, CA, USA
   “Superconducting circuit optomechanics in topological lattices” (Invited talk) June 2022
8. Quantum 2.0 Boston, MA, USA – Virtual
   “Silicon nitride hybrid integrated photonics” (Invited talk) June 2022
9. DPG – Semiconductors for Breakfast
   “Quantum optomechanics” (Invited talk) Jan. 2022
10. MWP2021 – 2021 International Topical Meeting on Microwave Photonics - Virtual
    “Photonic microwave generation in the X-and K-band using integrated soliton microcombs” (Invited talk) Nov. 2021
11. ACP 2021 – Asia Communications and Photonics Conference, Shanghai, China – Virtual
    “Photonic-chip based frequency combs” (Plenary talk) Oct. 2021
12. IEEE IPC 2021 – Virtual
    “Soliton microcombs: from dissipative structures to coherent LiDAR” (Invited talk) Oct. 2021
13. Huawei Summit – Automotive Sensors Technology, Munich, Germany
    “Photonic integrated FMCW LiDAR sources” (Invited talk) Oct. 2021
    “Photonic-chip based frequency combs” (Invited talk) Oct. 2021
15. Advanced Photonics 2021 - Virtual
    “Soliton microcombs: from fundamental spatio-temporal dynamics to mexapixel coherent LiDAR” (Invited talk) July 2021
16. PIC - Photonic Integrated Circuits Workshop: from telecom to sensing, Swissphotonics – Virtual
    “Nonlinear hybrid integrated photonics” (Invited talk) June 2021
17. OFC 2021, San Francisco, USA – Virtual
    “On-chip combs and laser integration: architecture, performance, and key technological challenges” (Invited talk) June 2021
18. QSIT Seminar, ETH Zurich, Switzerland
    “Photonic-chip based frequency combs” (Invited talk) Apr. 2021
19. ECE Korhammer Lecture Series Colloquium at Princeton University, USA – Virtual
    “Photonic-chip based frequency combs” (Invited talk) Apr. 2021
20. Max-Planck Distinguished Lecturer Series – Virtual
    “Photonic-chip based frequency combs” (Invited talk) Jan. 2021
21. DARPA DRINQS Review Meeting – Virtual
    “Extending coherence in non-stationary Kerr solitons” (Invited talk) Jan. 2021
22. EcoCloud, EPFL – Virtual
    “Photonic-chip based soliton microcombs” (Invited talk) Nov. 2020
23. IGM Colloquium, EPFL – Virtual
    “The physics and applications of high Q optical microcavities: cavity quantum optomechanics (Invited talk) Oct. 2020
    “FMCW LiDAR” (Tutorial) Sept. 2020
25. Jenaer Optikkolloquium – Virtual
    “Photonic-chip based soliton microcombs” (Invited talk) Sept. 2020
26. Ligentec PIC Online Summit – Virtual
    “Photonic-chip based soliton microcombs” (Invited talk) Sept. 2020
27. IEEE RAPID 2020 – Virtual
    “Photonic integrated soliton microcombs” (Plenary talk) Aug. 2020
28. Huawei’s Vision Forum – Virtual
    “Photonic-chip based soliton microcombs” (Invited talk) July 2020
<table>
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<tr>
<th>Date</th>
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<tr>
<td>June 2019</td>
<td>Photonic chipscale soliton frequency combs  (Invited talk)</td>
<td>Munich, Germany</td>
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<td>June 2019</td>
<td>AFOSR, Program Review Meeting, Arlington, USA</td>
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<td>May 2019</td>
<td>“Exploring temporal soliton physics in micro-resonator frequency combs”  (Invited talk)</td>
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<td>“Microresonator based optical frequency comb and photonic waveguide supercontinuum sources”  (Short course)</td>
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<td>Harnessing the ultimate limits of light-matter interactions with polaritonic metamaterials”  (Invited talk)</td>
<td>Albuquerque, USA</td>
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<td>Mar. 2019</td>
<td>“Soliton microresonator frequency combs”  (Invited talk)</td>
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<td>“Quantum feedback of a nanomechanical oscillator”  (Invited talk)</td>
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<td>“Elastic strain engineering for ultralow mechanical dissipation”  (Plenary talk)</td>
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<td>“Direct on-chip digital optical synthesis”  (Invited talk)</td>
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<td>“Microresonator soliton frequency combs”  (Invited talk)</td>
<td>Nanjing, China</td>
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<td>Sept. 2018</td>
<td>“Soliton micro-comb technology”  (Tutorial)</td>
<td>Rome, Italy</td>
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<td>“Cavity quantum optomechanics: quantum limits of interferometric position measurements”  (Invited talk)</td>
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<td><strong>ECIO 2018, 20th European Conference on Integrated Optics, Valencia, Spain</strong></td>
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<tr>
<td>“Optical frequency combs: technologies for generation and applications” (Invited talk)</td>
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<td><strong>QSIT-Quantum Systems and Technology, Monte Verita, Switzerland</strong></td>
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<td>“Quantum optomechanics with nanomechanical oscillators” (Invited talk)</td>
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<td><strong>3rd Q-MAC Symposium, Frontiers in Quantum Materials’ Control, Venice, Italy</strong></td>
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<td>“Cavity optomechanics: fundamentals and applications of controlling and measuring nano- and micro-mechanical oscillators with laser light” (Short course)</td>
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<tr>
<td><strong>EPFL-MicroNanoFabrication Annual Review Meeting, Lausanne, Switzerland</strong></td>
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<tr>
<td>“Quantum optomechanics and optical frequency combs with microresonators” (Invited talk)</td>
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<tr>
<td><strong>DPS Spring Meeting and EPS-CMD27, Berlin, Germany</strong></td>
<td>Mar. 2018</td>
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<td>“Exploring the limits of position measurement with optomechanics” (Invited talk)</td>
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<td><strong>DARPA DODOS, Boulder, USA</strong></td>
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<td>“Direct on-chip digital optical synthesis” (Invited talk)</td>
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<td><strong>GRC, Ventura, USA</strong></td>
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<tr>
<td>&quot;Quantum effects in interferometric position measurements of nanomechanical oscillators&quot; (Invited talk)</td>
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<tr>
<td><strong>Frontiers of Circuit QED and Optomechanics, Vienna, Austria</strong></td>
<td>Feb. 2018</td>
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<tr>
<td>“Engineered dissipation for amplification, masing and nonreciprocal devices” (Invited talk)</td>
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<td><strong>OMT-HOT 2018 Annual Meeting, Gstaad-Saanen, Switzerland</strong></td>
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<tr>
<td>“Quantum effects in interferometric position measurements of nanomechanical oscillators” (Invited talk)</td>
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<tr>
<td><strong>Department of Defense Basic Research Forum, Arlington, USA</strong></td>
<td>Dec. 2017</td>
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<tr>
<td>“Ultra high Q microresonator Physics: Chipscale Soliton Frequency Combs” (Invited talk)</td>
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<td><strong>Complexity in Nonlinear Photonics, Como, Italy</strong></td>
<td>Sept. 2017</td>
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<tr>
<td>“Dissipative temporal solitons on optical microresonators” (Invited talk)</td>
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<td><strong>Group IV Photonics 2017, Berlin, Germany</strong></td>
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<tr>
<td>“Frequency combs and quantum optomechanics with high Q optical microresonators” (Plenary talk)</td>
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<td><strong>Monte Verità 17, Ascona, Switzerland</strong></td>
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<tr>
<td>“Quantum limits of interferometric position measurements” (Invited talk)</td>
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<tr>
<td><strong>DARPA DSO PULSE Review Meeting, Arlington, USA</strong></td>
<td>July 2017</td>
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<td>“Pure microwave radiation extraction from frequency combs–pure comb (Microresonators)” (Invited talk)</td>
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<td><strong>ISUPT 2017, Southampton, UK</strong></td>
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<tr>
<td>“Soliton Kerr frequency combs: fundamentals and applications in coherent communication” (Plenary talk)</td>
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<tr>
<td><strong>PhD summer school on Quantum Technology (QNLO), Copenhagen, Denmark</strong></td>
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<tr>
<td>“Chipscale soliton Kerr frequency combs for metrology and coherent telecommunications” (Invited talk)</td>
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<td><strong>Quantum Cavities 2017, Jouvence, Quebec, Canada</strong></td>
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<td>“Reservoir engineering of mechanical oscillators for amplification, masing &amp; nonreciprocal devices” (Invited talk)</td>
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<td><strong>CLEO 2017, San Jose, USA</strong></td>
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<td>“Force metrology using quantum correlations of light generated due to a room temperature” (Invited talk)</td>
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<td>“Cavity optomechanics” (Short course)</td>
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<td>“Quantum sensor related technology development and interests in Switzerland” (Invited talk)</td>
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<td><strong>DARPA DODOS-CORES, Boulder, USA</strong></td>
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<td>“Direct on-chip digital optical synthesis” (Invited talk)</td>
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<td><strong>636. WE-Heraeus-Seminar, Bad Honnef, Germany</strong></td>
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<td>“Quantum-limited metrology and sensing” (Invited talk)</td>
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<td><strong>DARPA PULSE Review Meeting, Arlington, USA</strong></td>
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<td>“Program in ultrafast laser science and engineering” (Invited talk)</td>
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<td><strong>DARPA SCOUT Review Meeting, Boulder, USA</strong></td>
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<td>“Spectral combs from UV to THz” (Invited talk)</td>
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<td><strong>Graphene Division 3 Meeting</strong></td>
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<td><strong>Menlo Systems OFC User Seminar</strong></td>
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<td>“Microresonator-based optical frequency combs” (Invited talk)</td>
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“Soliton Kerr frequency combs on a chip” (Invited talk)

88. DARPA PULSE Review Meeting
“Program in ultrafast laser science and engineering” (Invited talk)

89. DARPA QuASAR Final Review Meeting, Arlington, USA
“Quantum assisted sensing and readout” (Invited talk)

90. ECMP 12, European Conference on Atoms, Molecules, and Photons, Frankfurt, Germany
“Measurement and control of a nanomechanical oscillator at the thermal decoherence rate” (Invited talk)

91. DARPA DODOS, Boulder, USA
“Direct on-chip digital optical synthesis” (Invited talk)

92. DARPA SCOUT Review Meeting, Boulder, USA
“Spectral combs from UV to THz” (Invited talk)

93. CLEO 2016, San Jose, USA
"Cavity optomechanics: fundamentals and applications of controlling and measuring nano- and micro-mechanical oscillators with laser light” (Invited talk)

94. AFOSR Review Meeting, Arlington, USA
“Ultrashort pulse laser-matter interactions” (Invited talk)

95. International Conf. on Applied Physics DGAO/ICO 2016, Hanover, Germany
“The science and applications of high Q optical microresonators in frequency metrology and quantum optomechanics” (Plenary talk)

96. IEEE IFCS 16 International Frequency Control Symposium, New Orleans, USA
“Cavity quantum optomechanics” (Tutorial)

97. DARPA DODOS-CORES Review Meeting
“Direct on-chip digital optical synthesis” (Invited talk)

98. DARPA PULSE Review Meeting, Orlando, USA
“Program in ultrafast laser science and engineering” (Invited talk)

99. Photonic West 2016, San Francisco, USA
“Recent advances in cavity Optomechanics” (Invited talk)

100. DARPA SCOUT Review Meeting, Boston, USA
“Mid infrared optical frequency combs” (Invited talk)

101. ISNTT 2015 Inter. Symposium on Nanoscale Transport and Technology, Japan
“Cavity optomechanics: measurement and control of nanomechanical oscillator at the thermal decoherence rate” (Invited talk)

102. Optical Frequency Combs for Space applications, Caltech, USA
“Soliton microresonator based optical frequency combs” (Invited talk)

103. DARPA QuASAR Review Meeting, Santa Barbara, USA
“Quantum assisted sensing and readout” (Invited talk)

104. Photonic in Switching, Florence, Italy
“Soliton Cherenkov radiation based optical frequency combs using a chip scale micro-resonator” (Invited talk)

105. ITQW 2015, Workshop on Frequency Combs Technology and Applications, Vienna, Austria
“The science of optical microresonators: chipscale optical frequency combs” (Invited talk)

106. Quantum Optomechanics & Nanomechanics, Les Houches, Summer School, France
“Cavity optomechanics with optical microresonators” (Invited talk)

107. NIM Resonator Conference on QED 2015, Munich, Germany
“Quantum effects in interferometric position measurements” (Invited talk)

108. ICQT 2015, Moscow, Russia
“Measurement and control of a nanomechanical oscillator at the thermal decoherence rate” (Invited talk)

109. NCCR QSIT Meeting, Monte Verità, Switzerland
“Quantum systems and technology” (Chair Session)

110. AFOSR PULSE Review Meeting, Arlington, USA
“Ultrashort pulse laser-matter interactions” (Invited talk)

111. CLEO 2015, Shortcourse San Jose, USA
“Cavity optomechanics: fundamentals and applications of controlling and measuring nano- and micro-mechanical oscillators with laser light” (Short course)

112. DARPA DODOS Kick-Off Meeting, San Diego, USA
“Direct on-chip digital optical synthesis” (Invited talk)

113. DARPA QuASAR Review Meeting, Cambridge, USA
“Quantum assisted sensing and readout” (Invited talk)

114. SPIE Photonic West San Francisco, USA
“Mid-IR frequency comb generation based on crystalline microresonators” (Invited talk)
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<td>DARPA PULSE Review Meeting, Ithaca, USA</td>
<td>“Program in Ultrafast Laser Science and Engineering” (Invited talk)</td>
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<td>Sept. 2014</td>
<td>NOEKS Nonlinear Optics and Excitation Kinetics in Semiconductors, Bremen, Germany</td>
<td>“Soliton and frequency comb generation in optical microresonators” (Invited talk)</td>
</tr>
<tr>
<td>Sept. 2014</td>
<td>QTHYES 2013, Strasbourg Quantum Technology Hybrid Emitter, Strasbourg, France</td>
<td>“Measurement based feedback at the thermal decoherence rate and molecular optomechanics” (Invited talk)</td>
</tr>
<tr>
<td>Sept. 2014</td>
<td>ECOC 2014, European Conference on Optical Communication, Cannes, France</td>
<td>“Microresonator based optical frequency combs and short solitons” (Invited talk)</td>
</tr>
<tr>
<td>Sept. 2014</td>
<td>EOSAM, European Optical Society, Grand Challenges of Photonics, Berlin, Germany</td>
<td>“The mechanical properties of light” (Invited talk)</td>
</tr>
<tr>
<td>Sept. 2014</td>
<td>KSOP Summerschool, Bad Herrenalb, Germany</td>
<td>“Mechanical systems in the Quantum regime: Cavity optomechanics” (Invited talk)</td>
</tr>
<tr>
<td>Aug. 2014</td>
<td>ICO-23 Enlightning the Future, Santiago, Spain</td>
<td>“Cavity Quantum Optomechanics with Optical Microresonator” (Plenary talk)</td>
</tr>
<tr>
<td>July 2014</td>
<td>Gordon Research Conference on Plasmonics, Newry, USA</td>
<td>“Nanoscale Optomechanics” (Invited talk)</td>
</tr>
<tr>
<td>Mar. 2014</td>
<td>Gordon Research Conference, Ventura, USA</td>
<td>“Cavity Optomechanics with Two Level Systems and the Reversed Dissipation Hierarchy” (Invited talk)</td>
</tr>
<tr>
<td>Feb. 2014</td>
<td>DARPA PULSE Winter Review, Austin, USA</td>
<td>“Program in Ultrafast Laser Science and Engineering” (Invited talk)</td>
</tr>
<tr>
<td>Jan. 2014</td>
<td>IEEE MEMS Conference, San Fransisco, USA</td>
<td>“Cavity quantum Optomechanics: Coupling lights and Micromechanical Oscillators” (Plenary talk)</td>
</tr>
<tr>
<td>Jan. 2014</td>
<td>VW-Symposium Hannover &quot;integration of Molecular Components in Functional Macroscopic Systems&quot;, Hannover, Germany</td>
<td>“Mechanical Systems in the Quantum Regime” (Plenary talk)</td>
</tr>
<tr>
<td>Nov. 2013</td>
<td>Swiss Kyoto Symposium, Zurich, Switzerland</td>
<td>“Chip-scale optical frequency combs” (Invited talk)</td>
</tr>
<tr>
<td>Sept. 2013</td>
<td>OECS, Conference on the Optics of Excitons in Confined Systems, Rome, Italy</td>
<td></td>
</tr>
</tbody>
</table>
“Cavity quantum Optomechanics” (Keynote Talk)  
143. DARPA PULSE Kick-Off Meeting, Washington, USA  
"Program in Ultrafast Laser Science and Engineering” (Invited talk)  
Aug. 2013  
144. DARPA QuASAR / ORCHID Review, Santa Cruz, USA  
“Coherent quantum coupling of light and mechanical motion” (Invited talk)  
Aug. 2013  
145. DARPA QuASAR / ORCHID Review, Santa Cruz, USA  
"Chip scale frequency combs” (Invited talk)  
Aug. 2013  
146. QIPC 2013: Quantum Information Processing & Communication, Florence, Italy  
“Cavity optomechanics: exploring the coupling of light and micro- and nanomechanical oscillators” (Invited talk)  
 Jul. 2013  
147. CLEO 2013, San Jose, USA  
“Cavity Optomechanics” (Short course)  
Jun. 2013  
148. PPM2013: Photonics, Plasmonics & Magneto-Optics Conference, Bilbao, Spain  
“Exploring the coupling of light and micro- and nanomechanical oscillators” (Invited talk)  
Apr. 2013  
149. Symposium Strong Coupling in Solid State Quantum Systems, Regensburg, Germany  
“Quantum coherent coupling between a Mechanical oscillator and an optical mode” (Invited talk)  
Mar. 2013  
150. UltrafastOptics UFO IX, Davos, Switzerland  
“Soliton mode locking in microresonator based optical frequency combs” (Invited talk)  
Mar. 2013  
151. FRISNO-12 Symposium on Non-linear & Quantum Optics, Ein Gedi, Israel  
“Exploring the coupling of light and micro- and nanomechanical oscillators” (Invited talk)  
Feb. 2013  
152. ITN cQOM Workshop, Diavolezza, Switzerland  
“Dynamical backaction in cavity optomecahnnies” (Invited talk)  
Feb. 2013  
153. NCCR QSIT Sudent School, Arosa, Switzerland  
“Cavity opto-mechanics” (Invited talk)  
Jan. 2013  
154. Heraeus Seminar on Hybrid quantum Systems, Bad Honnef, Germany  
“Cavity optomechanics: exploring the coupling of light and micro- and nanomechanical oscillators” (Invited talk)  
Nov. 2012  
155. Quantum Noise & Measurement in Engineered Electronic Systems, Dresden, Germany  
“Quantum coherent coupling of a mechanical oscillator to a cavity mode” (Invited talk)  
156. ECOC 2012 – CLEO Focus, Amsterdam, Netherlands  
“Chip scale optical frequency comb” (Invited talk)  
Sept. 2012  
157. Quantum Nano Optics, Barcelona, Spain  
“Quantum coherent coupling of light and mechanical oscillators” (Invited talk)  
Sept. 2012  
158. PHOTON 12, Durham, UK  
“Cavity optomechanics: Quantum coherent coupling of light and mechanical motion” (Invited talk)  
Sept. 2012  
159. DARPA QuASAR / ORCHID Review Meeting, San Diego, USA  
“Coherent quantum coupling of light and mechanical motion (Invited talk)  
Aug. 2012  
160. ICAP 2012, Paris, France  
“Cavity optomechanics: Quantum coherent coupling of light and mechanical motion” (Invited talk)  
Jul. 2012  
161. From Solid State to Biophysics, Dubrovnik, Croatia  
“Mechanics in the Quantum regime: Cavity Optomechanics” (Invited talk)  
June 2012  
162. DAMOP 2012, Anaheim, USA  
“Cavity optomechanics: Quantum coherent coupling of light and mechanical motion” (Invited talk)  
June 2012  
163. Swiss NanoConvention, Nano for Photonics, Lausanne, Switzerland  
“Cavity optomechanics: Quantum coherent coupling of light and mechanical motion” (Invited talk)  
May 2012  
164. CLEO 2012, San Jose, USA  
“Cavity Optomechanics” (Short course)  
May 2012  
165. CLEO 2012, San Jose, USA  
“Microresonator based optical frequency combs” (Invited talk)  
May 2012  
166. International OSA Network of Students (IONS) 2012, Karlsruhe, Germany  
“Cavity Optomechanics” (Keynote talk)  
Mar. 2012  
167. Boulder Research Seminar on OEQS, Boulder, USA  
“Quantum coherent coupling of a mechanical oscillator to a cavity mode” (Invited talk)  
Mar. 2012  
168. GRC – Mechanical Systems in the quantum Regime, Houston, USA  
“Quantum coherent coupling of a mechanical oscillator to a cavity mode” (Invited talk)  
Mar. 2012  
169. DARPA QuASAR Review Meeting, Boulder, USA  
“Chip scale frequency combs” (Invited talk)  
Feb. 2012  
170. Diavolezza 2012, Diavolezza, Switzerland  
“Cavity optomechanics: Quantum coherent coupling of light and mechanical motion” (Invited talk)  
Feb. 2012  
171. NCCR QSIT General Meeting, Arosa, Switzerland  
Feb. 2012
LIST OF INVITED TALKS & SEMINARS, OCT. 2022

“Cavity optomechanics: Quantum coherent coupling of light and mechanical motion” (Invited talk)

172. ITAMP/HQOC Seminar
“Quantum coherent coupling of light and mechanical motion” (Invited talk)

173. Frontiers in Quantum Photon Science, Hamburg, Germany
(Invited talk)

174. Heraeus Seminar on Macro- and Micro Cavities, Bad Honnef, Germany
“Coherent coupling of light and mechanical motion” (Invited talk)

175. 4th ESA Conference on Atomic Clocks in Space, Bari, Italy
“Chip-scale optical frequency combs” (Invited talk)

176. Engineering and Control of Quantum Systems, Dresden, Germany
“Cavity Optomechanics: Coherent coupling of light and mechanical motion” (Invited talk)

177. Quantum to Classical Crossover in Mechanical Systems, Leiden, Netherlands
“Coherent coupling of light and mechanical motion” (Invited talk)

178. 11th International Conference on Intersubband Transitions, Sardegna, Italy
“Cavity Optomechanics” (Plenary talk)

179. DARPA Quasar/ORCHID Review Meeting, San Diego, USA
“Coherent quantum coupling of light and mechanical motion” (Invited talk)

180. Optique Marseille, Marseille, France
“Cavity optomechanics” (Plenary talk)

181. EGAS Conference, Fribourg, Switzerland
“Cavity optomechanics” (Plenary talk)

182. Gordon Research Conference for Atomic Physics, Vermont, USA
“Cavity optomechanics” (Invited talk)

183. Nanotera Workshop, Neuchatel, Switzerland
“Chipscale optical frequency combs” (Invited talk)

184. CLEO Europe / Laser conference, Munich, Germany
“Measuring nanomechanical motion with an imprecision below the SQL” (Invited talk)

185. EFTF Meeting, San Francisco, USA
“Chipscale optical frequency combs” (Invited talk)

186. CLEO/QELS, Baltimore, USA
“Cavity Optomechanics” (Short course)

187. ESTEC Meeting, Amsterdam, Noordwijk, Netherlands
“Chip scale optical frequency combs” (Invited talk)

188. ITAMP Workshop, Harvard University, Cambridge, USA
“Cavity Optomechanics” (Invited talk)

189. Crans Montana Quantum Nanoscience Winterschool, Sion, Switzerland
“Cavity Optomechanics” (Invited talk)

190. MINOS Review Meeting, Paris, France
“Cavity Optomechanics” (Invited talk)

191. University of Ghent, Ghent, Belgium
“Chip scale optical frequency combs” (Invited talk)

192. Photonics West 2011, San Francisco, USA
“Laser cooling of a mechanical oscillator close to the ground state” (Invited talk)

193. Photonics West 2011, San Francisco, USA
“Cavity Optomechanics” (Invited talk)

194. NCCR Quantum Engineering Workshop, Arosa Switzerland
“Laser cooling of a mechanical oscillator close to the ground state” (Invited talk)

195. 19th Australian Institute of Physics Congress, Melbourne, Australia
“Cavity Optomechanics” (Plenary talk)

196. EOS Meeting, Paris, France
“Octave spanning optical frequency comb” (Invited talk)

197. Frontiers in Optics, Rochester, USA
“Quantum measurements and cooling of micromechanical motion” (Invited talk)

198. Fachbeirat, Max Planck Institute of Quantum Optics, Garching, Germany
“Cavity Optomechanics with microresonators” (Invited talk)

199. Wissenschafts-Konferenz Konferenz "Aufbruch nach Europa?" Berlin, Germany
“Impuls-statement: Der Europäische Forschungsraum als Arbeitsmarkt und die Attraktivität des Wissenschaftsstandortes Deutschland - Perspektiven von Wissenschaftlerinnen und Wissenschaftlern” (Invited talk)
LIST OF INVITED TALKS & SEMINARS, OCT. 2022

200. Summer School "Nanophotonics meets Quantum Optics", Bad Honnef, Germany
    "Quantum Measurements and Cooling of Mechanical Motion" (Tutorial)
    Sept. 2010

201. Workshop on Nano-opto-electro-mechanical systems (ICTP), Trieste, Italy
    "Quantum measurements with optical microresonators" (Invited talk)
    Sept. 2010

202. Summer School on Nano-Photonics, Bad Herrenalb, Germany
    "Summerschool lectures on "Cavity Optomechanics" (Invited talk)
    Aug. 2010

203. Quantum and Nonlinear Optics at the Sandbjerg Estate, Denmark
    "Summerschool lectures on "Cavity Optomechanics" (Invited talk)
    Aug. 2010

204. OSA Optics & Photonics Congress 2010, Karlsruhe, Germany
    "Monolithic Frequency Comb on a Chip" (Invited talk)
    June 2010

205. Third Casimir Research School Meeting, Arnemuiden, Netherlands
    "Summerschool lecture on “Cavity Optomechanics” (Invited talk)
    June 2010

206. Hybrid Quantum Systems Workshop, Heidelberg, Germany
    "Cavity optomechanics" (Invited talk)
    May 2010

207. Quantum Cavities, Montréal, Canada
    "Quantum Measurements using Optical Microresonators” (Invited talk)
    April 2010

208. Frontiers in Photonics and Quantum Optics, ETH Zurich, Switzerland
    "Cavity optomechanics using microresonators” (Invited talk)
    Dec. 2009

209. ESA Workshop on Optical Atomic Clocks, Friscati, Italy
    "Chip scale frequency combs” (Invited talk)
    Oct. 2009

210. Frontiers in Optics, San Jose, USA
    "Cavity Optomechanics: The Physics of Backaction” (Invited talk)
    Oct. 2009

211. Nanoscience Initiative Munich NIM Workshop, Munich, Germany
    "Cavity Optomechanics: The Physics of Backaction” (Invited talk)
    Oct. 2009

212. LEOS Annual Meeting 2009, Antalya, Turkey
    "Cavity Optomechanics: The Physics of Backaction” (Invited talk)
    Oct. 2009

213. Micro- and Nanoengineering Conference MNE 2009, Gent, Belgium
    "Cavity Optomechanics: The Physics of Backaction” (Keynote Talk)
    Sept. 2009

214. Quantum Information Processing, Herrsching, Germany
    "Cavity Optomechanics at the Micro and Nanoscale” (Invited talk)
    July 2009

215. Helmholtz Symposium Award Ceremony (Brandenburgische Akademie der Wissenschaften), Berlin, Germany
    "Optische Frequenzkaemme auf einem Chip” (Invited talk)
    June 2009

216. Nanoscience Conference, Tremblay, France
    "Cavity Optomechanics at the Micro and Nanoscale” (Invited talk)
    June 2009

217. Quantum Engineering Workshop, Monte Verita, Switzerland
    "Cavity Optomechanics at the Micro and Nanoscale” (Invited talk)
    June 2009

218. ICOLS, Kussharo, Hokkaido, Japan
    "Cavity Optomechanics” (Invited talk)
    June 2009

219. Joint Meeting of the European Frequency and Time Forum, Besançon, France
    "Monolithic Microwave Repetition Rate Optical Frequency Combs” (Invited talk)
    Apr. 2009

220. DPG Meeting Dresden, Germany
    "Cavity Optomechanics using microresonators” (Invited talk)
    Mar. 2009

221. Trends in Nanoscience, Kloster Irsee, Germany
    "Cavity Optomechanics: Backaction Cooling of Mechanical Motion” (Invited talk)
    Mar. 2009

222. Zurich Physics Colloquium, ETH Zurich, Switzerland
    "Cavity Optomechanics: Backaction-Cooling of Mechanical Oscillators” (Seminar)
    Mar. 2009

223. Photonics West, San Jose, USA
    "Laser Cooling of a Mechanical Oscillator” (Invited talk)
    Jan. 2009

224. Photonics West, San Jose, USA
    "Cavity Optomechanics” (Invited talk)
    Jan. 2009

225. Nanometra 2009, Seefeld, Austria
    "Cavity Optomechanics” (Invited talk)
    Jan. 2009

226. Workshop Control of Quantum Correlations in Matter, Germany
    "Cavity Optomechanics” (Invited talk)
    Dec. 2008

227. AMO Annual Meeting, Lunteren, Netherlands
    "Cavity Optomechanics: Laser Cooling of Mechanical Oscillators” (Invited talk)
    Oct. 2008

228. 7th Symposium on Frequency Standards and Metrology, CA, USA
    "Chip Scale Frequency Combs” (Invited talk)
    Oct. 2008
LIST OF INVITED TALKS & SEMINARS, Oct. 2022

229. CLEO 2008, San Jose, USA  
“Full stabilization of a microresonator frequency comb” (Invited talk)  
May 2008

230. CLEO 2008, San Jose, USA  
“Resolved sideband cooling of a mechanical oscillator” (Invited talk)  
May 2008

231. NCCER Quantum Photonics General Assembly, Ovronnaz, Switzerland  
“Cavity Optomechanics” (Invited talk)  
Sept. 2009

232. NCCER Quantum Photonics General Assembly, Ovronnaz, Switzerland  
“Cavity Optomechanics” (Invited talk)  
Sept. 2009

233. ICAP Conference 2008, Storrs, USA  
“Laser Cooling of Mechanical Oscillators” (Invited talk)  
July 2008

234. OSA Topical Meeting, COTA, Boston, USA  
“Monolithic Optical Frequency Comb Generator” (Invited talk)  
July 2008

235. Gordon Research Conference: Mechanical Systems at the Quantum Limit  
“Resolved Sideband Cooling of a Mechanical Oscillator” (Invited talk)  
Feb. 2008

236. Photonics West, USA  
“Monolithic Optical Frequency Comb Generator” (Invited talk)  
Jan. 2008

237. LEOS Winter Topical, Italy  
“Monolithic Optical Frequency Comb Generator” (Invited talk)  
Jan. 2008

238. Frontiers in Optics Meeting, San Jose, USA  
“Laser Cooling of a Mechanical Oscillator” (Invited talk)  
Sept. 2007

239. Frontiers in Optics Meeting, San Jose, USA  
“Monolithic Optical Frequency Comb Generator” (Invited talk)  
Sept. 2007

240. OSA Nonlinear Optics Meeting, Kona, Hawaii  
“Frequency Comb Generation from a monolithic microcavity” (Invited talk)  
Aug. 2007

241. LEOS Summer Topical, Portland, USA  
“Monolithic Optical Frequency Comb Generator” (Invited talk)  
July 2008

242. ITAMP Workshop, Harvard University, Cambridge, USA  
“Laser Cooling of a Mechanical Oscillator” (Invited talk)  
May 2007

243. CLEO 2007, Baltimore, Maryland, USA  
“Laser Cooling of a Mechanical Oscillator” (Invited talk)  
May 2007

244. CLEO 2007, Baltimore, Maryland, USA  
“Frequency Comb Generation from a monolithic microcavity” (Invited talk)  
May 2007

245. European Meeting of the Materials Research Society, Nice, France  
“Demonstration of an Erbium doped microlaser on a chip” (Invited talk)  
June 2006

246. CLEO 2006, Los Angeles, USA  
“Demonstration of an Erbium doped microlaser on a chip” (Invited talk)  
June 2006

247. Cold Atoms meet Solid State (CatCom Workshop), Dresden, Germany  
“Analysis of radiation pressure induced micromechanical oscillations” (Invited talk)  
June 2006

248. Meeting of the Materials Research Society, San Francisco, USA  
“Demonstration of an Erbium doped microlaser on a chip” (Invited talk)  
Mar. 2006

PHYSICS COLLOQUIA GIVEN AT UNIVERSITIES

249. Yale University, New Haven, CT, USA, June 2022

250. Max Planck Institute for Multidisciplinary Sciences, Göttingen, Germany (Prof. Dr. Claus Ropers), May 2022

251. UC Berkeley Solid-State Seminar Series, USA, Virtual, April 2022

252. Peking University, China (Prof. Qifan Yang), Virtual, March 2022

253. Princeton University, USA (Prof. Nathalie de Leon), Virtual, Dec. 2021

254. LMU Physik Kolloquium, Munich, Germany (Prof. Jan Lipfert), Virtual, April 2021

255. Humboldt University Berlin, Germany, Dec. 2018

256. Stanford University, USA, Ginzton Laboratory Seminar, May 2018

257. PSI Villigen, Switzerland, Quantum Technologies Colloquium (Dr. Hans-Christian Sigg), April 2018

258. Yale Quantum Institute, USA (Prof. A. Douglas Stone), Dec. 2017

259. Stuttgart, Germany, Physics Colloquium, June 2016

260. Yale Physics Colloquium, Yale, USA (Prof. M. Devoret), June 2016

261. FU Berlin University, Germany, cavity-Optomechanics Symposium, Nov. 2015

262. FU Berlin University, Germany, (Prof. P. Brouwer), June 2015

263. Cambridge University, AMOP Seminar, UK (AMOP Group), March 2015

264. University of Konstanz physics Colloquium, Germany (Prof. E. Weig), June 2014
LIST OF INVITED TALKS & SEMINARS, OCT. 2022

265. Technische Universität Darmstadt, Physics Colloquium, Darmstadt, Germany (Prof. G. Alber), Feb. 2014
266. University of Innsbruck, Physics Colloquium, Austria (Prof. H. Nägerl), Jan. 2014
268. University of Magdeburg, Physics Colloquium, Germany, (Prof. Wiersig), July 2012
269. College de France Seminar, France, (Prof. Devoret), June 2012
271. NIST, Maryland, USA, (Dr. Salamon), Nov. 2011
272. Joint Quantum Sciences Institute, University of Maryland (Dr. Salamon), Maryland, USA, Nov. 2011
273. University of Geneva, Switzerland (Prof. Gisin), Nov. 2011
274. University of Erlangen, Germany (Prof. Sandoghdar), June 2011
275. University of Ghent, Belgium (Prof. R. Baets), Feb. 2011
276. University of Dusseldorf, Germany (Prof. Schiller), Nov. 2010
277. University of Neuchatel, Switzerland (Prof. Thomann), Nov. 2010
278. University of Fribourg, Switzerland, Nov. 2010
279. Aarhus University, Aarhus, Denmark, (Prof. Moelmer), June 2010
280. LPN-CNRS, Marcoussis, France, (Dr. Robert), June 2010
281. Tyndal College Seminar, Cork, Ireland, May 2010
282. AMOLF Institute, Amsterdam, Netherlands (Prof. Polman), Feb. 2010
283. College de France (Prof. Haroche), Jan. 2010
284. Max Planck Institute of Solid State Physics, Germany, (Prof. Kern), Jan. 2010
285. Mainz University, Germany (Prof. Rauschenbeutel), Jan. 2010
286. University of Karlsruhe, Germany (Prof. Kalt), May 2009
287. University of Stuttgart, Germany (Prof. Giessen), Apr. 2009
288. ETH Zurich, Switzerland (Prof. Imanoglu), March 2009
289. National Institute of Standards and Technology (NIST), USA (Scott Diddams), Jan. 2009
290. University of Basel, Switzerland (Prof. Bruder), Feb. 2008
291. University of Bonn, Germany (Prof. Meschede), Nov. 2008
292. PTB Braunschweig, Germany (Prof. Riedle), June 2007
293. University of Camerino, Italy (Prof. Tombesi), Feb. 2007
294. Ludwig Maximilians University, Munich, Germany, CeNS Seminar (Prof. Kotthaus), Feb. 2007
295. University of Vienna, Institute for Quantum Information (IQI), Austria (Dr. Aspelmeyer), Nov. 2006
296. Humboldt University Berlin, Physics Department, Germany (Prof. Benson), Nov. 2006
297. Georgia Institute of Technology, Physics Department, May 2006
298. University of Mainz, Physics Department, Germany (Prof. Bloch), March 2006
299. Technical University of Munich, Physics Department, Germany (Prof. Zwerger), March 2006
300. EPFL Lausanne, Switzerland (Prof. Deveaud-Pledran), Jan. 2006
301. Schloss Ringberg, Germany (retreat of T.W. Hänsch group), Sept. 2005
302. University of California, Berkeley, Physics Department, USA (Prof. Stamper-Kurn), May 2005
303. M.I.T., Research Laboratory of Electronics, USA (Prof. Kaertner), March 2005
304. McGill University, EECS Department, USA, March 2005
305. JILA (NIST), University of Colorado, USA (Prof. Jun Ye), Feb. 2005
306. University of Washington, Department of Electrical Engineering, Seattle, USA, Feb. 2005
307. Cornell University, Department of Physics, USA, March 2005
308. Max Planck Group for Information, Optics and Photonics, Erlangen, Germany (Prof. Leuchs), Sept. 2004
309. CEA Grenoble, (Dr. J.M. Gerard), Grenoble, France, Sept. 2004
310. Laboratoire Kastler Brossel (Dr. V. Lefèvre), Ecole Normale Supérieure, Paris, France, March 2004
312. F.O.M. Institute AMOLF, Amsterdam, Netherlands (Prof. Albert Polman), Feb. 2004

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