

INVITED TALKS AT INTERNATIONAL CONFERENCES

1. **ACP- POEM, Asia Communications and Photonics Conference, Wuhan, China** Nov. 2023
“Hybrid low loss integrated photonics: from chipscale frequency combs, frequency agile lasers, erbium amplifiers to cryogenic quantum interconnects” (*Plenary talk*)
2. **CLEO/Europe-EQEC 2023, Munich, Germany** Jun. 2023
“Ultra-low loss hybrid silicon nitride integrated photonics: from chipscale frequency combs, frequency agile lasers to Erbium amplifiers on chip” (*Keynote talk*)
3. **6th Workshop on Applications of Dielectric Laser Accelerators, ACHIP, Stanford, CA, USA - Virtual** Feb. 2023
“Low loss silicon nitride nonlinear integrated photonic circuits for electron microscopy” (*Invited talk*)
4. **Huawei Thames Summit 2022, London, UK** Dec. 2022
“Silicon nitride integrated photonics: from frequency agile lasers, frequency combs to EDWA” (*Invited talk*)
5. **DARPA LUMOS, Review Meeting, Arlington, VA, USA – Virtual** Oct. 2022
“Nonlinear Nanophotonics for Visible-Emission Lasers” (*Invited talk*)
6. **AFOSR MURI, Review Meeting, New York, USA – Virtual** Sept. 2022
“Non-reciprocity in photonic integrated circuits based on silicon nitride” (*Invited talk*)
7. **Huawei Workshop on Novel Photonics Technologies, Basel, Switzerland** Sept. 2022
“Hybrid Integrated nonlinear photonics: from chipscale frequency combs, frequency agile lasers to erbium integrated waveguide amplifiers” (*Invited talk*)
8. **10th EPS-QEOD Europhoton 2022, Hannover, Germany** Sept. 2022
“Silicon nitride integrated photonics” (*Invited talk*)
9. **ICO-25, OWLS-16 Dresden, Germany – Virtual** Sept. 2022
“Hybrid integrated nonlinear photonics: from chipscale frequency combs to cryogenic interconnects” (*Keynote talk*)
10. **DARPA DRINQS – Virtual** July 2022
“Extending coherence in non-stationary Kerr solitons” (*Invited talk*)
11. **GRC Ventura, CA, USA** June 2022
“Superconducting circuit optomechanics in topological lattices” (*Invited talk*)
12. **Quantum 2.0 Boston, MA, USA – Virtual** June 2022
“Silicon nitride hybrid integrated photonics” (*Invited talk*)
13. **DPG – Semiconductors for Breakfast** Jan. 2022
“Quantum optomechanics” (*Invited talk*)
14. **MWP2021 – 2021 International Topical Meeting on Microwave Photonics - Virtual** Nov. 2021
“Photonic microwave generation in the X-and K-band using integrated soliton microcombs” (*Invited talk*)
15. **ACP 2021 – Asia Communications and Photonics Conference, Shanghai, China – Virtual** Oct. 2021
“Photonic-chip based frequency combs” (*Plenary talk*)
16. **IEEE IPC 2021 – Virtual** Oct. 2021
“Soliton microcombs: from dissipative structures to coherent LiDAR” (*Invited talk*)
17. **Huawei Summit – Automotive Sensors Technology, Munich, Germany** Oct. 2021
“Photonic integrated FMCW LiDAR sources” (*Invited talk*)
18. **Huawei Strategy and Technology Workshop 2021 – Virtual** Oct. 2021
“Photonic-chip based frequency combs” (*Invited talk*)
19. **Advanced Photonics 2021 - Virtual** July 2021
“Soliton microcombs: from fundamental spatio-temporal dynamics to megapixel coherent LiDAR” (*Invited talk*)
20. **PIC - Photonic Integrated Circuits Workshop: from telecom to sensing, Swissphotonics – Virtual** June 2021
“Nonlinear hybrid integrated photonics” (*Invited talk*)
21. **OFC 2021, San Francisco, USA – Virtual** June 2021
“On-chip combs and laser integration: architecture, performance, and key technological challenges” (*Invited talk*)
22. **QSIT Seminar, ETH Zurich, Switzerland** Apr. 2021
“Photonic-chip based frequency combs” (*Invited talk*)
23. **ECE Korhammer Lecture Series Colloquium at Princeton University, USA – Virtual** Apr. 2021
“Photonic-chip based frequency combs” (*Invited talk*)
24. **Max-Planck Distinguished Lecturer Series – Virtual** Jan. 2021
“Photonic-chip based frequency combs” (*Invited talk*)
25. **DARPA DRINQS Review Meeting – Virtual** Jan. 2021
“Extending coherence in non-stationary Kerr solitons” (*Invited talk*)
26. **EcoCloud, EPFL – Virtual** Nov. 2020
“Photonic-chip based soliton microcombs” (*Invited talk*)
27. **IGM Colloquium, EPFL – Virtual** Oct. 2020
“The physics and applications of high Q optical microcavities: cavity quantum optomechanics (*Invited talk*)

28.	AutoSens – Virtual “FMCW LiDAR” (<i>Tutorial</i>)	Sept. 2020
29.	Jenaer Optikkolloquium – Virtual “Photonic-chip based soliton microcombs” (<i>Invited talk</i>)	Sept. 2020
30.	Ligentec PIC Online Summit – Virtual “Photonic-chip based soliton microcombs” (<i>Invited talk</i>)	Sept. 2020
31.	IEEE RAPID 2020 – Virtual “Photonic integrated soliton microcombs” (<i>Plenary talk</i>)	Aug. 2020
32.	Huawei’s Vision Forum – Virtual “Photonic-chip based soliton microcombs” (<i>Invited talk</i>)	July 2020
33.	DARPA DRINQS Review Meeting, Arlington, USA “Extending coherence in non-stationary Kerr solitons” (<i>Invited talk</i>)	Jan. 2020
34.	PQE20, Snowbird, USA “Photonic-chip based soliton microcombs” (<i>Invited talk</i>)	Jan. 2020
35.	DARPA DODOS Review Meeting, Santa Barbara, USA “Direct on-chip digital optical synthesis” (<i>Invited talk</i>)	Dec. 2019
36.	Microsoft, Cambridge, UK “Photonic-chip based soliton microcombs” (<i>Invited talk</i>)	Nov. 2019
37.	3rd Optical Innovations Summit, Munich, Germany “Photonic-chip based soliton microcombs” (<i>Invited talk</i>)	Oct. 2019
38.	HOT-FET Seminar, Brussels, Belgium “Hybrid Optomechanical Technologies” (<i>Invited talk</i>)	Sept. 2019
39.	AFOSR MURI, Review Meeting, New York, USA “Non-reciprocity in photonic integrated circuits based on silicon nitride” (<i>Invited talk</i>)	Sept. 2019
40.	MANYBODY19, Many-body physics with ultracold atoms and beyond, Munich, Germany “Quantum feedback of a nanomechanical oscillator” (<i>Invited talk</i>)	Sept. 2019
41.	DARPA Optomechanics Mini-Symposium/Workshop, Arlington, USA “Cavity quantum optomechanics” (<i>Invited talk</i>)	Aug. 2019
42.	5th International Conference on Quantum Technologies (ICQT) 2019, Moscow, Russia “Microresonator soliton frequency combs” (<i>Invited talk</i>)	July 2019
43.	CLEO Europe-EQEC 2019, Munich, Germany “Photonic chip-scale soliton frequency combs” (<i>Invited talk</i>)	June 2019
44.	AFOSR, Program Review Meeting, Arlington, USA “Exploring temporal soliton physics in micro-resonator frequency combs” (<i>Invited talk</i>)	June 2019
45.	CLEO 2019, San Jose, USA “Chipscale soliton micro-combs” (<i>Tutorial</i>)	May 2019
46.	CLEO 2019, San Jose, USA “Microresonator based optical frequency comb and photonic waveguide supercontinuum sources” (<i>Short course</i>)	May 2019
47.	CLEO 2019, San Jose, USA “Cavity optomechanics: fundamentals and applications” (<i>Short course</i>)	May 2019
48.	DARPA DRINQS, Santa Barbara, USA “Extending coherence in non-stationary Kerr solitons” (<i>Invited talk</i>)	April 2019
49.	DARPA NLM Review Meeting, Albuquerque, USA “Harnessing the ultimate limits of light-matter interactions with polaritonic metamaterials” (<i>Invited talk</i>)	Mar. 2019
50.	APS, Boston, USA “Soliton microresonator frequency combs” (<i>Invited talk</i>)	Mar. 2019
51.	SPIE Photonics West, San Francisco, USA “Soliton microresonator frequency combs” (<i>Invited talk</i>)	Feb 2019
52.	PQE19, Snowbird, USA “Quantum feedback of a nanomechanical oscillator” (<i>Invited talk</i>)	Jan. 2019
53.	International Workshop on Sound-enabled Nanotechnologies (IWENT), Valencia, Spain “Elastic strain engineering for ultralow mechanical dissipation” (<i>Plenary talk</i>)	Nov. 2018
54.	DARPA DODOS Review Meeting, Santa Barbara, USA “Direct on-chip digital optical synthesis” (<i>Invited talk</i>)	Nov. 2018
55.	Nature Conference on Nanophotonics and Integrated Photonics, Nanjing, China “Microresonator soliton frequency combs” (<i>Invited talk</i>)	Nov. 2018
56.	44th ECOC 2018, Rome, Italy “Soliton micro-comb technology” (<i>Tutorial</i>)	Sept. 2018
57.	CeNS/LMU, Workshop Celebrating NanoScience, Venice, Italy	Sept. 2018

- “Cavity quantum optomechanics: quantum limits of interferometric position measurements” (*Invited talk*)
58. Hybrid Approaches to Quantum-Information Processing, DNRF, Copenhagen, Denmark **Sept. 2018**
“Quantum effects in interferometric position measurements of nanomechanical oscillators” (*Invited talk*)
59. Symposium for the Science of Light, Max Planck Institute, Erlangen, Germany **July 2018**
“Microresonator soliton frequency combs” (*Invited talk*)
60. ePIXfab Silicon Photonics Summer School, Ghent, Belgium **June 2018**
“Cavity quantum optomechanics” (*Invited talk*)
61. Photonic Packaging Sub-micron Assembly, Fraunhofer IZM, Berlin, Germany **June 2018**
“Photonic integrated soliton frequency combs” (*Invited talk*)
62. AFOSR, Program Review Meeting, Arlington, USA **June 2018**
“Exploring temporal soliton physics in micro-resonator frequency combs” (*Invited talk*)
63. ECIO 2018, 20th European Conference on Integrated Optics, Valencia, Spain **May 2018**
“Optical frequency combs: technologies for generation and applications” (*Invited talk*)
64. QSIT-Quantum Systems and Technology, Monte Verita, Switzerland **May 2018**
“Quantum optomechanics with nanomechanical oscillators” (*Invited talk*)
65. 3rd Q-MAC Symposium, Frontiers in Quantum Materials’ Control, Venice, Italy **May 2018**
“Quantum optomechanics with nanomechanical oscillators” (*Invited talk*)
66. CLEO 2018, San Jose, USA **May 2018**
“Cavity optomechanics: fundamentals and applications of controlling and measuring nano- and micro-mechanical oscillators with laser light” (*Short course*)
67. EPFL-MicroNanoFabrication Annual Review Meeting, Lausanne, Switzerland **May 2018**
“Quantum optomechanics and optical frequency combs with microresonators” (*Invited talk*)
68. DPS Spring Meeting and EPS-CMD27, Berlin, Germany **Mar. 2018**
“Exploring the limits of position measurement with optomechanics” (*Invited talk*)
69. DARPA DODOS, Boulder, USA **Mar. 2018**
“Direct on-chip digital optical synthesis” (*Invited talk*)
70. GRC, Ventura, USA **Feb. 2018**
“Quantum effects in interferometric position measurements of nanomechanical oscillators” (*Invited talk*)
71. Frontiers of Circuit QED and Optomechanics, Vienna, Austria **Feb. 2018**
“Engineered dissipation for amplification, masing and nonreciprocal devices” (*Invited talk*)
72. OMT-HOT 2018 Annual Meeting, Gstaad-Saanen, Switzerland **Jan. 2018**
“Quantum effects in interferometric position measurements of nanomechanical oscillators” (*Invited talk*)
73. Department of Defense Basic Research Forum, Arlington, USA **Dec. 2017**
“Ultra high Q microresonator Physics: Chipscale Soliton Frequency Combs” (*Invited talk*)
74. Complexity in Nonlinear Photonics, Como, Italy **Sept. 2017**
“Dissipative temporal solitons on optical microresonators” (*Invited talk*)
75. Group IV Photonics 2017, Berlin, Germany **Aug. 2017**
“Frequency combs and quantum optomechanics with high Q optical microresonators” (*Plenary talk*)
76. Monte Verità 17, Ascona, Switzerland **Aug. 2017**
“Quantum limits of interferometric position measurements” (*Invited talk*)
77. DARPA DSO PULSE Review Meeting, Arlington, USA **July 2017**
“Pure microwave radiation extraction from frequency combs – pure comb (Microresonators)” (*Invited talk*)
78. ISUPT 2017, Southampton, UK **July 2017**
“Soliton Kerr frequency combs: fundamentals and applications in coherent communication” (*Plenary talk*)
79. PhD summer school on Quantum Technology (QNLO), Copenhagen, Denmark **June 2017**
“Chipscale soliton Kerr frequency combs for metrology and coherent telecommunications” (*Invited talk*)
80. Quantum Cavities 2017, Jouvence, Quebec, Canada **June 2017**
“Reservoir engineering of mechanical oscillators for amplification, masing & nonreciprocal devices” (*Invited talk*)
81. AFOSR, Arlington, USA **May 2017**
“Exploring temporal soliton physics in micro-resonator frequency combs” (*Invited talk*)
82. CLEO 2017, San Jose, USA **May 2017**
“Force metrology using quantum correlations of light generated due to a room temperature” (*Invited talk*)
83. CLEO 2017, San Jose, USA
“Cavity optomechanics” (*Short course*)
84. 1st Meeting of the SET-ET-101 on “Mobile Quantum Sensors for Navigation, Timing and Gravitation” **Apr. 2017**
“Quantum sensor related technology development and interests in Switzerland” (*Invited talk*)
85. DARPA DODOS-CORES, Boulder, USA **Mar. 2017**
“Direct on-chip digital optical synthesis” (*Invited talk*)
86. 636. WE-Heraeus-Seminar, Bad Honnef, Germany **Feb. 2017**

	“Quantum-limited metrology and sensing” <i>(Invited talk)</i>	
87.	DARPA PULSE Review Meeting, Arlington, USA	Jan. 2017
	“Program in ultrafast laser science and engineering” <i>(Invited talk)</i>	
88.	DARPA SCOUT Review Meeting, Boulder, USA	Jan. 2017
	“Spectral combs from UV to THz” <i>(Invited talk)</i>	
89.	Graphene Division 3 Meeting	Dec. 2016
	“2-D material functionalized microresonators” <i>(Invited talk)</i>	
90.	Menlo Systems OFC User Seminar	Nov. 2016
	“Microresonator-based optical frequency combs” <i>(Invited talk)</i>	
91.	2016 Frontiers in Optics / Laser Science Meeting, Rochester, USA	Oct. 2016
	“Soliton Kerr frequency combs on a chip” <i>(Invited talk)</i>	
92.	DARPA PULSE Review Meeting	Sept. 2016
	“Program in ultrafast laser science and engineering” <i>(Invited talk)</i>	
93.	DARPA QuASAR Final Review Meeting, Arlington, USA	Sept. 2016
	“Quantum assisted sensing and readout” <i>(Invited talk)</i>	
94.	ECAMP 12, European Conference on Atoms, Molecules, and Photons, Frankfurt, Germany	Sept. 2016
	“Measurement and control of a nanomechanical oscillator at the thermal decoherence rate” <i>(Invited talk)</i>	
95.	DARPA DODOS, Boulder, USA	Aug. 2016
	“Direct on-chip digital optical synthesis” <i>(Invited talk)</i>	
96.	DARPA SCOUT Review Meeting, Boulder, USA	Aug. 2016
	“Spectral combs from UV to THz” <i>(Invited talk)</i>	
97.	CLEO 2016, San Jose, USA	June 2016
	“Cavity optomechanics: fundamentals and applications of controlling and measuring nano- and micro-mechanical oscillators with laser light” <i>(Invited talk)</i>	
98.	AFOSR Review Meeting, Arlington, USA	June 2016
	“Ultrashort pulse laser-matter interactions” <i>(Invited talk)</i>	
99.	International Conf. on Applied Physics DGAO/ICO 2016, Hanover, Germany	May 2016
	“The science and applications of high Q optical microresonators in frequency metrology and quantum optomechanics” <i>(Plenary talk)</i>	
100.	IEEE IFCS 16 International Frequency Control Symposium, New Orleans, USA	May 2016
	“Cavity quantum optomechanics” <i>(Tutorial)</i>	
101.	DARPA DODOS-CORES Review Meeting	May 2016
	“Direct on-chip digital optical synthesis” <i>(Invited talk)</i>	
102.	DARPA PULSE Review Meeting, Orlando, USA	Mar. 2016
	“Program in ultrafast laser science and engineering” <i>(Invited talk)</i>	
103.	Photonic West 2016, San Francisco, USA	Feb. 2016
	“Recent advances in cavity Optomechanics” <i>(Invited talk)</i>	
104.	DARPA SCOUT Review Meeting, Boston, USA	Jan. 2016
	“Mid infrared optical frequency combs” <i>(Invited talk)</i>	
105.	ISNTT 2015 Inter. Symposium on Nanoscale Transport and Technology, Japan	Nov. 2015
	“Cavity optomechanics: measurement and control of nanomechanical oscillator at the thermal decoherence rate” <i>(Invited talk)</i>	
106.	Optical Frequency Combs for Space applications, Caltech, USA	Nov. 2015
	“Soliton microresonator based optical frequency combs” <i>(Invited talk)</i>	
107.	DARPA QuASAR Review Meeting, Santa Barbara, USA	Oct. 2015
	“Quantum assisted sensing and readout” <i>(Invited talk)</i>	
108.	Photonic in Switching, Florence, Italy	Sept. 2015
	“Soliton Cherenkov radiation based optical frequency combs using a chip scale micro-resonator” <i>(Invited talk)</i>	
109.	ITQW 2015, Workshop on Frequency Combs Technology and Applications, Vienna, Austria	Sept. 2015
	“The science of optical microresonators: chipscale optical frequency combs” <i>(Invited talk)</i>	
110.	Quantum Optomechanics & Nanomechanics, Les Houches, Summer School, France	Aug. 2015
	“Cavity optomechanics with optical microresonators” <i>(Invited talk)</i>	
111.	NIM Resonator Conference on QED 2015, Munich, Germany	Aug. 2015
	“Quantum effects in interferometric position measurements” <i>(Invited talk)</i>	
112.	ICQT 2015, Moscow, Russia	July 2015
	“Measurement and control of a nanomechanical oscillator at the thermal decoherence rate” <i>(Invited talk)</i>	
113.	NCCR QSIT Meeting, Monte Verità, Switzerland	July 2015
	“Quantum systems and technology” <i>(Chair Session)</i>	
114.	AFOSR PULSE Review Meeting, Arlington, USA	May 2015

- “Ultrashort pulse laser-matter interactions” (*Invited talk*)
115. **CLEO 2015, Shortcourse San Jose, USA** May 2015
“Cavity optomechanics: fundamentals and applications of controlling and measuring nano- and micro-mechanical oscillators with laser light” (*Short course*)
116. **DARPA DODOS Kick-Off Meeting, San Diego, USA** Apr. 2015
“Direct on-chip digital optical synthesis” (*Invited talk*)
117. **DARPA QuASAR Review Meeting, Cambridge, USA** Mar. 2015
“Quantum assisted sensing and readout” (*Invited talk*)
118. **SPIE Photonic West San Francisco, USA** Feb. 2015
“Mid-IR frequency comb generation based on crystalline microresonators” (*Invited talk*)
119. **SPIE Photonic West San Francisco, USA** Feb. 2015
“On chip temporal solitons and coherent dispersive waves in SiN optical micro resonators for octave spanning frequency combs” (*Invited talk*)
120. **DARPA PULSE Review Meeting** Jan. 2015
“Program in ultrafast laser science and engineering” (*Invited talk*)
121. **iQuoems Review Meeting, Brussels, Belgium** Dec. 2014
“RF to optical conversion with W6M resonators” (*Invited talk*)
122. **576. WEH-Seminar Designed Quantum State of Matter, Bad-Honnef, Germany** Dec. 2014
“Measurement and control of a mechanical oscillator at its thermal decoherence rate” (*Invited talk*)
123. **RQC Seminar, Russian Quantum Center, Moscow, Russia** Nov. 2014
“Cavity Quantum Optomechanics with Optical Microresonator” (*Invited talk*)
124. **MSU- Moscow State University, Moscow, Russia** Nov. 2014
“The Physics of High Q optical micro resonators: from optomechanics to frequency combs” (*Invited talk*)
125. **DARPA PULSE Review Meeting, Ithaca, USA** Nov. 2014
“Program in Ultrafast Laser Science and Engineering” (*Invited talk*)
126. **NOEKS Nonlinear Optics and Excitation Kinetics in Semiconductors, Bremen, Germany** Sept. 2014
“Soliton and frequency comb generation in optical microresonators” (*Invited talk*)
127. **QThYES 2014, Strasbourg Quantum Technology Hybrid Emitter, Strasbourg, France** Sept. 2014
“Measurement based feedback at the thermal decoherence rate and molecular optomechanics” (*Invited talk*)
128. **ECOC 2014, European Conference on Optical Communication, Cannes, France** Sept. 2014
“Microresonator based optical frequency combs and short solitons” (*Invited talk*)
129. **EOSAM, European Optical Society, Grand Challenges of Photonics, Berlin, Germany** Sept. 2014
“The mechanical properties of light” (*Invited talk*)
130. **DARPA ORCHID Review Meeting, Boulder, USA** Sept. 2014
“Optical Radiation Cooling and Heating in Integrated Devices” (*Invited talk*)
131. **KSOP Summerschool, Bad Herrenalb, Germany** Sept. 2014
“Mechanical systems in the Quantum regime: Cavity optomechanics” (*Invited talk*)
132. **ICO-23 Enlightning the Future, Santiago, Spain** Aug. 2014
“Cavity Quantum Optomechanics with Optical Microresonator” (*Plenary talk*)
133. **Gordon Research Conference on Plasmonics, Newry, USA** July 2014
“Nanoscale Optomechanics” (*Invited talk*)
134. **E-MRS Spring Meeting Phonons and fluctuations in low dimensional structures** May 2014
“Cavity Optomechanics: controlling phonons with photons at the quantum level” (*Invited talk*)
135. **Molecular Nanosystems Workshop, Ascona, Switzerland** Apr. 2014
“Unraveling the giant Enhancement Mechanism of Single Molecule Raman Scattering: A Cavity Optomechanical Theory of SERS/TERS” (*Invited talk*)
136. **DARPA DODOS-CORES Review Meeting, Arlington, USA** Apr. 2014
“Direct On-chip Digital Optical Synthesis” (*Invited talk*)
137. **Gordon Research Conference, Ventura, USA** Mar. 2014
“Cavity Optomechanics with Two Level Systems and the Reversed Dissipation Hierarchy” (*Invited talk*)
138. **DARPA PULSE Winter Review, Austin, USA** Feb. 2014
“Program in Ultrafast Laser Science and Engineering” (*Invited talk*)
139. **DARPA QuASAR / ORCHID Review, Long Beach, USA** Jan. 2014
“Coherent quantum coupling of light and mechanical motion” (*Invited talk*)
140. **IEEE MEMS Conference, San Francisco, USA** Jan. 2014
“Cavity quantum Optomechanics: Coupling lights and Micromechanical Oscillators” (*Plenary talk*)
141. **VW-Symposium Hannover "integration of Molecular Components in Functional Macroscopic Systems", Hannover, Germany** Jan. 2014
“Mechanical Systems in the Quantum Regime” (*Plenary talk*)

142.	DARPA DODOS-CORES Workshop, Denver, USA "Direct On-chip Digital Optical Synthesis" (<i>Invited talk</i>)	Dec. 2013
143.	Swiss Kyoto Symposium, Zurich, Switzerland "Chip-scale optical frequency combs" (<i>Invited talk</i>)	Nov. 2013
144.	Frontiers in Optics FiO 2013, Orlando, USA "Frequency Combs and Ultrashort Laser Pulses Generation via Temporal Solitons in Optical Micro-resonators" (<i>Invited talk</i>)	Oct. 2013
145.	Frontiers in Optics FiO 2013, Orlando, USA "Cavity optomechanics: Controlling mechanical motion with Radiation pressure" (<i>Invited talk</i>)	Oct. 2013
146.	OECs, Conference on the Optics of Excitons in Confined Systems, Rome, Italy "Cavity quantum Optomechanics" (<i>Keynote Talk</i>)	Sept. 2013
147.	DARPA PULSE Kick-Off Meeting, Washington, USA "Program in Ultrafast Laser Science and Engineering" (<i>Invited talk</i>)	Aug. 2013
148.	DARPA QuASAR / ORCHID Review, Santa Cruz, USA "Coherent quantum coupling of light and mechanical motion" (<i>Invited talk</i>)	Aug. 2013
149.	DARPA QuASAR / ORCHID Review, Santa Cruz, USA "Chip scale frequency combs" (<i>Invited talk</i>)	Aug. 2013
150.	QIPC 2013: Quantum Information Processing & Communication, Florence, Italy "Cavity optomechanics: exploring the coupling of light and micro- and nanomechanical oscillators" (<i>Invited talk</i>)	July 2013
151.	CLEO 2013, San Jose, USA "Cavity Optomechanics" (<i>Short course</i>)	Jun. 2013
152.	PPM2013: Photonics, Plasmonics & Magneto-Optics Conference, Bilbao, Spain "Exploring the coupling of light and micro- and nanomechanical oscillators" (<i>Invited talk</i>)	Apr. 2013
153.	Symposium Strong Coupling in Solid State Quantum Systems, Regensburg, Germany "Quantum coherent coupling between a Mechanical oscillator and an optical mode" (<i>Invited talk</i>)	Mar. 2013
154.	UltrafastOptics UFO IX, Davos, Switzerland "Soliton mode locking in microresonator based optical frequency combs" (<i>Invited talk</i>)	Mar. 2013
155.	FRISNO-12 Symposium on Non-linear & Quantum Optics, Ein Gedi, Israel "Exploring the coupling of light and micro- and nanomechanical oscillators" (<i>Invited talk</i>)	Feb. 2013
156.	ITN cQOM Workshop, Diavolezza, Switzerland "Dynamical backaction in cavity optomechanics" (<i>Invited talk</i>)	Feb. 2013
157.	NCCR QSIT Student School, Arosa, Switzerland "Cavity opto-mechanics" (<i>Invited talk</i>)	Jan. 2013
158.	Heraeus Seminar on Hybrid quantum Systems, Bad Honnef, Germany "Cavity optomechanics: exploring the coupling of light and micro- and nanomechanical oscillators" (<i>Invited talk</i>)	Nov. 2012
159.	Quantum Noise & Measurement in Engineered Electronic Systems, Dresden, Germany "Quantum coherent coupling of a mechanical oscillator to a cavity mode" (<i>Invited talk</i>)	Oct. 2012
160.	ECOC 2012 – CLEO Focus, Amsterdam, Netherlands "Chip scale optical frequency comb" (<i>Invited talk</i>)	Sept. 2012
161.	Quantum Nano Optics, Barcelona, Spain "Quantum coherent coupling of light and mechanical oscillators" (<i>Invited talk</i>)	Sept. 2012
162.	PHOTON 12, Durham, UK "Cavity optomechanics: Quantum coherent coupling of light and mechanical motion" (<i>Invited talk</i>)	Sept. 2012
163.	DARPA QuASAR / ORCHID Review Meeting, San Diego, USA "Coherent quantum coupling of light and mechanical motion" (<i>Invited talk</i>) "Chip scale frequency combs" (<i>Invited talk</i>)	Aug. 2012
164.	ICAP 2012, Paris, France "Cavity optomechanics: Quantum coherent coupling of light and mechanical motion" (<i>Invited talk</i>)	July 2012
165.	From Solid State to Biophysics, Dubrovnik, Croatia "Mechanics in the Quantum regime: Cavity Optomechanics" (<i>Invited talk</i>)	June 2012
166.	DAMOP 2012, Anaheim, USA "Cavity optomechanics: Quantum coherent coupling of light and mechanical motion" (<i>Invited talk</i>)	June 2012
167.	Swiss NanoConvention, Nano for Photonics, Lausanne, Switzerland "Cavity optomechanics: Quantum coherent coupling of light and mechanical motion" (<i>Invited talk</i>)	May 2012
168.	CLEO 2012, San Jose, USA "Cavity Optomechanics" (<i>Short course</i>)	May 2012
169.	CLEO 2012, San Jose, USA "Microresonator based optical frequency combs" (<i>Invited talk</i>)	May 2012
170.	International OSA Network of Students (IONS) 2012, Karlsruhe, Germany	Mar. 2012

- “Cavity Optomechanics” (*Keynote talk*)
171. **Boulder Research Seminar on OEQS, Boulder, USA** Mar. 2012
“Quantum coherent coupling of a mechanical oscillator to a cavity mode” (*Invited talk*)
172. **GRC – Mechanical Systems in the quantum Regime, Houston, USA** Mar. 2012
“Quantum coherent coupling of a mechanical oscillator to a cavity mode” (*Invited talk*)
173. **DARPA QuASAR Review Meeting, Boulder, USA** Feb. 2012
“Chip scale frequency combs” (*Invited talk*)
174. **Diavolezza 2012, Diavolezza, Switzerland** Feb. 2012
“Cavity optomechanics: Quantum coherent coupling of light and mechanical motion” (*Invited talk*)
175. **NCCR QSIT General Meeting, Arosa, Switzerland** Feb. 2012
“Cavity optomechanics: Quantum coherent coupling of light and mechanical motion” (*Invited talk*)
176. **ITAMP/HQOC Seminar** Jan. 2012
“Quantum coherent coupling of light and mechanical motion” (*Invited talk*)
177. **Frontiers in Quantum Photon Science, Hamburg, Germany** Nov. 2011
(*Invited talk*)
178. **Heraeus Seminar on Macro- and Micro Cavities, Bad Honnef, Germany** Nov. 2011
“Coherent coupling of light and mechanical motion” (*Invited talk*)
179. **4th ESA Conference on Atomic Clocks in Space, Bari, Italy** Nov. 2011
“Chip-scale optical frequency combs” (*Invited talk*)
180. **Engineering and Control of Quantum Systems, Dresden, Germany** Oct. 2011
“Cavity Optomechanics: Coherent coupling of light and mechanical motion” (*Invited talk*)
181. **Quantum to Classical Crossover in Mechanical Systems, Leiden, Netherlands** Oct. 2011
“Coherent coupling of light and mechanical motion” (*Invited talk*)
182. **11th International Conference on Intersubband Transitions, Sardegna, Italy** Oct. 2011
“Cavity Optomechanics” (*Plenary talk*)
183. **DARPA QuASAR/ ORCHID Review Meeting, San Diego, USA** Aug. 2011
“Coherent quantum coupling of light and mechanical motion” (*Invited talk*)
“Chip scale frequency combs” (*Invited talk*)
184. **Optique Marseille, Marseille, France** June 2011
“Cavity optomechanics” (*Plenary talk*)
185. **EGAS Conference, Fribourg, Switzerland** June 2011
“Cavity optomechanics” (*Plenary talk*)
186. **Gordon Research Conference for Atomic Physics, Vermont, USA** June 2011
“Cavity optomechanics” (*Invited talk*)
187. **Nanotera Workshop, Neuchatel, Switzerland** June 2011
“Chipscale optical frequency combs” (*Invited talk*)
188. **CLEO Europe / Laser conference, Munich, Germany** May 2011
“Measuring nanomechanical motion with an imprecision below the SQL” (*Invited talk*)
189. **EFTF Meeting, San Francisco, USA** May 2011
“Chipscale optical frequency combs” (*Invited talk*)
190. **CLEO/QELS, Baltimore, USA** May 2011
“Cavity Optomechanics” (*Short course*)
191. **ESTEC Meeting, Amsterdam, Noordwijk, Netherlands** April 2011
“Chip scale optical frequency combs” (*Invited talk*)
192. **ITAMP Workshop, Harvard University, Cambridge, USA** Mar. 2011
“Cavity Optomechanics” (*Invited talk*)
193. **Crans Montana Quantum Nanoscience Winterschool, Sion, Switzerland** Mar. 2011
“Cavity Optomechanics” (*Invited talk*)
194. **MINOS Review Meeting, Paris, France** Feb. 2011
“Cavity Optomechanics” (*Invited talk*)
195. **University of Ghent, Ghent, Belgium** Feb. 2011
“Chip scale optical frequency combs” (*Invited talk*)
196. **Photonics West 2011, San Francisco, USA** Jan. 2011
“Laser cooling of a mechanical oscillator close to the ground state” (*Invited talk*)
197. **Photonics West 2011, San Francisco, USA** Jan. 2011
“Cavity Optomechanics” (*Invited talk*)
198. **NCCR Quantum Engineering Workshop, Arosa Switzerland** Jan. 2011
“Laser cooling of a mechanical oscillator close to the ground state” (*Invited talk*)
199. **19th Australian Institute of Physics Congress, Melbourne, Australia** Dec. 2010

- “Cavity Optomechanics” (*Plenary talk*)
200. **EOS Meeting, Paris, France** Nov. 2010
“Octave spanning optical frequency comb” (*Invited talk*)
201. **Frontiers in Optics, Rochester, USA** Nov. 2010
“Quantum measurements and cooling of micromechanical motion” (*Invited talk*)
202. **Fachbeirat, Max Planck Institute of Quantum Optics, Garching, Germany** Oct. 2010
“Cavity Optomechanics with microresonators” (*Invited talk*)
203. **Wissenschafts-Konferenz Konferenz "Aufbruch nach Europa?" Berlin, Germany** Sept. 2010
“Impuls-statement: Der Europäische Forschungsraum als Arbeitsmarkt und die Attraktivität des Wissenschaftsstandortes Deutschland - Perspektiven von Wissenschaftlerinnen und Wissenschaftlern” (*Invited talk*)
204. **Summer School "Nanophotonics meets Quantum Optics", Bad Honnef, Germany** Sept. 2010
“Quantum Measurements and Cooling of Mechanical Motion” (*Tutorial*)
205. **Workshop on Nano-opto-electro-mechanical systems (ICTP), Trieste, Italy** Sept. 2010
“Quantum measurements with optical microresonators” (*Invited talk*)
206. **Summer School on Nano-Photonics, Bad Herrenalb, Germany** Aug. 2010
“Summerschool lectures on ”Cavity Optomechanics” (*Invited talk*)
207. **Quantum and Nonlinear Optics at the Sandbjerg Estate, Denmark** Aug. 2010
“Summerschool lectures on “Cavity Optomechanics” (*Invited talk*)
208. **OSA Optics & Photonics Congress 2010, Karlsruhe, Germany** June 2010
“Monolithic Frequency Comb on a Chip” (*Invited talk*)
209. **Third Casimir Research School Meeting, Arnemuiden, Netherlands** June 2010
“Summerschool lecture on “Cavity Optomechanics” (*Invited talk*)
210. **Hybrid Quantum Systems Workshop, Heidelberg, Germany** May 2010
“Cavity optomechanics” (*Invited talk*)
211. **Quantum Cavities, Montréal, Canada** April 2010
“Quantum Measurements using Optical Microresonators” (*Invited talk*)
212. **Frontiers in Photonics and Quantum Optics, ETH Zurich, Switzerland** Dec. 2009
“Cavity optomechanics using microresonators” (*Invited talk*)
213. **ESA Workshop on Optical Atomic Clocks, Friscati, Italy** Oct. 2009
“Chip scale frequency combs” (*Invited talk*)
214. **Frontiers in Optics, San Jose, USA** Oct. 2009
“Cavity Optomechanics: The Physics of Backaction” (*Invited talk*)
215. **Nanoscience Initiative Munich NIM Workshop, Munich, Germany** Oct. 2009
“Cavity Optomechanics: The Physics of Backaction” (*Invited talk*)
216. **LEOS Annual Meeting 2009, Antalya, Turkey** Oct. 2009
“Cavity Optomechanics: The Physics of Backaction” (*Invited talk*)
217. **Micro- and Nanoengineering Conference MNE 2009, Gent, Belgium** Sept. 2009
“Cavity Optomechanics: The Physics of Backaction” (*Keynote Talk*)
218. **Quantum Information Processing, Herrsching, Germany** July 2009
“Cavity Optomechanics at the Micro and Nanoscale” (*Invited talk*)
219. **Helmholtz Symposium Award Ceremony (Brandenburgische Akademie der Wissenschaften), Berlin, Germany** June 2009
“Optische Frequenzkämme auf einem Chip” (*Invited talk*)
220. **Nanoscience Conference, Tremblay, France** June 2009
“Cavity Optomechanics at the Micro and Nanoscale” (*Invited talk*)
221. **Quantum Engineering Workshop, Monte Verita, Switzerland** June 2009
Cavity Optomechanics at the Micro and Nanoscale” (*Invited talk*)
222. **ICOLS, Kussharo, Hokkaido, Japan** June 2009
“Cavity Optomechanics” (*Invited talk*)
223. **Joint Meeting of the European Frequency and Time Forum, Besançon, France** Apr. 2009
“Monolithic Microwave Repetition Rate Optical Frequency Combs” (*Invited talk*)
224. **DPG Meeting Dresden, Germany** Mar. 2009
“Cavity Optomechanics using microresonators” (*Invited talk*)
225. **Trends in Nanoscience, Kloster Irsee, Germany** Mar. 2009
“Cavity Optomechanics: Backaction Cooling of Mechanical Motion” (*Invited talk*)
226. **Zurich Physics Colloquium, ETH Zurich, Switzerland** Mar. 2009
“Cavity Optomechanics: Backaction-Cooling of Mechanical Oscillators” (*Seminar*)
227. **Photonics West, San Jose, USA** Jan. 2009
“Laser Cooling of a Mechanical Oscillator” (*Invited talk*)

228.	Photonics West, San Jose, USA	Jan. 2009
	“Cavity Optomechanics” (<i>Invited talk</i>)	
229.	Nanometa 2009, Seefeld, Austria	Jan. 2009
	“Cavity Optomechanics” (<i>Invited talk</i>)	
230.	Workshop Control of Quantum Correlations in Matter, Germany	Dec. 2008
	“Cavity Optomechanics” (<i>Invited talk</i>)	
231.	AMO Annual Meeting, Lunteren, Netherlands	Oct. 2008
	“Cavity Optomechanics : Laser Cooling of Mechanical Oscillators” (<i>Invited talk</i>)	
232.	7th Symposium on Frequency Standards and Metrology, CA, USA	Oct. 2008
	“Chip Scale Frequency Combs” (<i>Invited talk</i>)	
233.	CLEO 2008, San Jose, USA	May 2008
	“Full stabilization of a microresonator frequency comb” (<i>Invited talk</i>)	
234.	CLEO 2008, San Jose, USA	May 2008
	“Resolved sideband cooling of a mechanical oscillator” (<i>Invited talk</i>)	
235.	NIM Workshop, Munich, Germany	Sept. 2009
	“Cavity Optomechanics” (<i>Invited talk</i>)	
236.	NCCR Quantum Photonics General Assembly, Ovronnaz, Switzerland	Sept. 2009
	“Cavity Optomechanics” (<i>Invited talk</i>)	
237.	ICAP Conference 2008, Storrs, USA	July 2008
	“Laser Cooling of Mechanical Oscillators” (<i>Invited talk</i>)	
238.	OSA Topical Meeting, COTA, Boston, USA	July 2008
	“Monolithic Optical Frequency Comb Generator” (<i>Invited talk</i>)	
239.	Gordon Research Conference: Mechanical Systems at the Quantum Limit	Feb. 2008
	“Resolved Sideband Cooling of a Mechanical Oscillator” (<i>Invited talk</i>)	
240.	Photonics West, USA	Jan. 2008
	“Monolithic Optical Frequency Comb Generator” (<i>Invited talk</i>)	
241.	LEOS Winter Topical, Italy	Jan. 2008
	“Monolithic Optical Frequency Comb Generator” (<i>Invited talk</i>)	
242.	Frontiers in Optics Meeting, San Jose, USA	Sept. 2007
	“Laser Cooling of a Mechanical Oscillator” (<i>Invited talk</i>)	
243.	Frontiers in Optics Meeting, San Jose, USA	Sept. 2007
	“Monolithic Optical Frequency Comb Generator” (<i>Invited talk</i>)	
244.	OSA Nonlinear Optics Meeting, Kona, Hawaii	Aug. 2007
	“Frequency Comb Generation from a monolithic microcavity” (<i>Invited talk</i>)	
245.	LEOS Summer Topical, Portland, USA	July 2008
	“Monolithic Optical Frequency Comb Generator” (<i>Invited talk</i>)	
246.	ITAMP Workshop, Harvard University, Cambridge, USA	May 2007
	“Laser Cooling of a Mechanical Oscillator” (<i>Invited talk</i>)	
247.	CLEO 2007, Baltimore, Maryland, USA	May 2007
	“Laser Cooling of a Mechanical Oscillator” (<i>Invited talk</i>)	
248.	CLEO 2007, Baltimore, Maryland, USA	May 2007
	“Frequency Comb Generation from a monolithic microcavity” (<i>Invited talk</i>)	
249.	European Meeting of the Materials Research Society, Nice, France	June 2006
	“Demonstration of an Erbium doped microlaser on a chip” (<i>Invited talk</i>)	
250.	CLEO 2006, Los Angeles, USA	June 2006
	“Demonstration of an Erbium doped microlaser on a chip” (<i>Invited talk</i>)	
251.	Cold Atoms meet Solid State (CatCom Workshop), Dresden, Germany	June 2006
	“Analysis of radiation pressure induced micromechanical oscillations” (<i>Invited talk</i>)	
252.	Meeting of the Materials Research Society, San Francisco, USA	Mar. 2006
	“Demonstration of an Erbium doped microlaser on a chip” (<i>Invited talk</i>)	

PHYSICS COLLOQUIA GIVEN AT UNIVERSITIES

253.	Physics Day 2023, EPFL, Oct. 2023
254.	Yale University, New Haven, CT, USA, June 2022
255.	Max Planck Institute for Multidisciplinary Sciences, Göttingen, Germany (<i>Prof. Dr. Claus Ropers</i>), May 2022
256.	UC Berkeley Solid-State Seminar Series, USA, Virtual, April 2022
257.	Peking University, China (<i>Prof. Qifan Yang</i>), Virtual, March 2022
258.	Princeton University, USA (<i>Prof. Nathalie de Leon</i>), Virtual, Dec. 2021
259.	LMU Physik Kolloquium, Munich, Germany (<i>Prof. Jan Lipfert</i>), Virtual, April 2021

260. Humboldt University Berlin, Germany, Dec. 2018
261. Stanford University, USA, Ginzton Laboratory Seminar, May 2018
262. PSI Villigen, Switzerland, Quantum Technologies Colloquium (*Dr. Hans-Christian Sigg*), April 2018
263. Yale Quantum Institute, USA (*Prof. A. Douglas Stone*), Dec. 2017
264. Stuttgart, Germany, Physics Colloquium, June 2016
265. Yale Physics Colloquium, Yale, USA (*Prof. M. Devoret*), June 2016
266. FU Berlin University, Germany, cavity-Optomechanics Symposium, Nov. 2015
267. FU Berlin University, Germany, (*Prof. P. Brouwer*), June 2015
268. Cambridge University, AMOP Seminar, UK (*AMOP Group*), March 2015
269. University of Konstanz physics Colloquium, Germany (*Prof. E. Weig*), June 2014
270. Technische Universität Darmstadt, Physics Colloquium, Darmstadt, Germany (*Prof. G. Alber*), Feb. 2014
271. University of Innsbruck, Physics Colloquium, Austria (*Prof. H. Nägerl*), Jan. 2014
272. Cambridge Graphene Centre, Cambridge, UK (*Prof. T. Hasan*), Oct. 2013
273. University of Magdeburg, Physics Colloquium, Germany, (*Prof. Wiersig*), July 2012
274. College de France Seminar, France, (*Prof. Devoret*), June 2012
275. Harvard Quantum Optics Colloquium, USA, (*Prof. Doyle*), Jan. 2012
276. NIST, Maryland, USA, (*Dr. Salamon*), Nov. 2011
277. Joint Quantum Sciences Institute, University of Maryland (*Dr. Salamon*),, Maryland, USA, Nov. 2011
278. University of Geneva, Switzerland (*Prof. Gisin*), Nov. 2011
279. University of Erlangen, Germany (*Prof. Sandoghdar*), June 2011
280. University of Ghent, Belgium (*Prof. R. Baets*), Feb. 2011
281. University of Duesseldorf, Germany (*Prof. Schiller*), Nov. 2010
282. University of Neuchatel, Switzerland (*Prof. Thomann*), Nov. 2010
283. University of Fribourg, Switzerland, Nov. 2010
284. Aarhus University, Aarhus, Denmark, (*Prof. Moelmer*), June 2010
285. LPN-CNRS, Marcoussis, France, (*Dr. Robert*), June 2010
286. Tyndal College Seminar, Cork, Ireland, May 2010
287. AMOLF Institute, Amsterdam, Netherlands (*Prof. Polman*), Feb. 2010
288. College de France (*Prof. Haroche*), Jan. 2010
289. Max Planck Institute of Solid State Physics, Germany, (*Prof. Kern*), Jan. 2010
290. Mainz University, Germany (*Prof. Rauschenbeutel*), Jan. 2010
291. University of Karlsruhe, Germany (*Prof. Kalt*), May 2009
292. University of Stuttgart, Germany (*Prof. Giessen*), Apr. 2009
293. ETH Zurich, Switzerland (*Prof. Imamoglu*), March 2009
294. National Institute of Standards and Technology (NIST), USA (*Scott Diddams*), Jan. 2009
295. University of Basel, Switzerland (*Prof. Bruder*), Feb. 2008
296. University of Bonn, Germany (*Prof. Meschede*), Nov. 2008
297. PTB Braunschweig, Germany (*Prof. Riedle*), June 2007
298. University of Camerino, Italy (*Prof. Tombesi*), Feb. 2007
299. Ludwig Maximilians University, Munich, Germany, CeNS Seminar (*Prof. Kotthaus*), Feb. 2007
300. University of Vienna, Institute for Quantum Information (IQI), Austria (*Dr. Aspelmeyer*), Nov. 2006
301. Humboldt University Berlin, Physics Department, Germany (*Prof. Benson*), Nov. 2006
302. Georgia Institute of Technology, Physics Department, May 2006
303. University of Mainz, Physics Department, Germany (*Prof. Bloch*), March 2006
304. Technical University of Munich, Physics Department, Germany (*Prof. Zwerger*), March 2006
305. EPFL Lausanne, Switzerland (*Prof. Deveaud-Pledran*), Jan. 2006
306. Schloss Ringberg, Germany (*retreat of T.W. Hänsch group*), Sept. 2005
307. University of California, Berkeley, Physics Department, USA (*Prof. Stamper-Kurn*), May 2005
308. M.I.T., Research Laboratory of Electronics, USA (*Prof. Kaertner*), March 2005
309. McGill University, EECS Department, USA, March 2005
310. JILA (NIST), University of Colorado, USA (*Prof. Jun Ye*), Feb. 2005
311. University of Washington, Department of Electrical Engineering, Seattle, USA, Feb. 2005
312. Cornell University, Department of Physics, USA, March 2005
313. Max Planck Group for Information, Optics and Photonics, Erlangen, Germany (*Prof. Leuchs*), Sept. 2004
314. CEA Grenoble, (*Dr. J.M. Gerard*), Grenoble, France, Sept. 2004
315. Laboratoire Kastler Brossel (*Dr. V. Lefevre*), Ecole Normale Supérieure, Paris, France, March 2004
316. Ecole Polytechnique, PMC, Paris, France, March 2004
317. F.O.M. Institute AMOLF, Amsterdam, Netherlands (*Prof. Albert Polman*), Feb. 2004