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“Advanced quantum light state generation and manipulation by addition and subtraction of single photons”
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“Experimental coherent superpositions of quantum operators for noiseless amplification and advanced state manipulation”
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Advances in foundations of quantum mechanics and quantum information with atoms and photons, Torino, Italy, 26-28/4/2004
- 53) **“Mutually coherent high-order harmonic pulses for XUV Ramsey spectroscopy”**
M. Bellini, S. Cavalieri, C. Corsi, R. Eramo and M. Materazzi
13th International Laser Physics Workshop (LPHYS’04), Trieste, Italy, 12-16/7/2004

- 54) **“Selective control of fourth-order interferences by means of comb-like two-photon entangled states”**
 A. Zavatta, S. Viciani and M. Bellini
Seventh International Conference on Quantum Communication, Measurement and Computing (QCMC'04), Glasgow, UK, 25-29/7/2004
- 55) **“Comb-like two-photon entangled states for the selective control of fourth-order interferences”**
 A. Zavatta, S. Viciani and M. Bellini
Quantum Information Processing and Communication Workshop (V QIPC '04), Roma, Italy, 20-22/9/2004
- 56) **“Optical Coherence Tomography for painting diagnostics: a novel application”**
 F. T. Arecchi, M. Bellini, C. Corsi, R. Fontana, M. Materazzi, L. Pezzati and A. Tortora
International Topical Meeting on Optical Sensing and Artificial Vision (OSAV 2004), Saint Petersburg, Russia, 19-21/10/2004
- 57) **“Single-photon excitation of coherent states: a bridge from the particle to the wave character of light”**
 A. Zavatta, S. Viciani and M. Bellini
9th International Conference on Squeezed States and Uncertainty Relations (ICSSUR '05), Besancon, France, 2-6/5/2005
- 58) **“Generation and phase-space characterization of coherent states of light excited by a single photon”**
 A. Zavatta, S. Viciani and M. Bellini
International Conference on Coherent and Nonlinear Optics (ICONO 2005), St. Petersburg, Russia, 11-15/5/2005
- 59) **“Experiments on the mutual phase coherence of supercontinuum pulses generated in bulk media”**
 A. Tortora, C. Corsi and M. Bellini
International Conference on Coherent and Nonlinear Optics (ICONO 2005), St. Petersburg, Russia, 11-15/5/2005
- 60) **“Optical coherence tomography for painting diagnostics”**
 F. T. Arecchi, M. Bellini, R. Fontana, M. Materazzi, L. Pezzati, A. Tortora and C. Corsi
International Conference on Lasers, Applications, and Technologies (LAT 2005), St. Petersburg, Russia, 11-15/5/2005
- 61) **(Invited) “Applications of the coherence properties of high-order harmonics”**
 M. Bellini
Ultra short XUV pulses for time-resolved and non-linear applications (XTRA Summer School), Porquerolles, France, 25-28/5/2005
- 62) **“Generation and tomographic analysis of novel quantum light states”**
 A. Zavatta, S. Viciani, M. Bellini and V. Parigi
CLEO/Europe-EQEC 2005 Conference, Munich, Germany, 12-17/6/2005
- 63) **“Novel application of optical coherence tomography for painting diagnostics”**
 F. T. Arecchi, M. Bellini, C. Corsi, R. Fontana, M. Materazzi, L. Pezzati and A. Tortora
Optical Methods for Arts and Archaeology, (SPIE International Symposium on Optical Metrology), Munich, Germany, 13-17/6/2005
- 64) **(Invited) “From quantum to classical: watching a single photon become a wave”**
 A. Zavatta, S. Viciani and M. Bellini
The Nature of Light: What is a Photon? (SPIE Symposium on Optics & Photonics), San Diego, USA, 31/7-4/8/2005
- 65) **(Invited) “Catching the elementary step of excitation of a coherent light state by a single photon”**
 A. Zavatta, S. Viciani and M. Bellini
Quantum Communications and Quantum Imaging III (SPIE Symposium on Optics & Photonics), San Diego, USA, 31/7-4/8/2005
- 66) **(Invited) “Generation and applications of high order harmonics – state of the art”**
 M. Bellini
European Workshop on “Plasma-based X-ray Lasers: Status and Prospects”, Prague, Czech Republic, 1-2/9/2005

- 67) **(Invited) “Remotely-prepared single-photon time-encoded ebits: homodyne tomography and Bell’s inequality test”**
M. D’Angelo, A. Zavatta, V. Parigi, M. Bellini
36th Winter Colloquium on The Physics of Quantum Electronics, Snowbird, Utah, USA, 2-6/1/2006
- 68) **(Invited) “Quantum tomography of time-delocalized single photons”**
M. Bellini, A. Zavatta, M. D’Angelo, V. Parigi
Advances in foundations of quantum mechanics and quantum information with atoms and photons, Torino, Italy, 2-5/5/2006
- 69) **(Invited) “High-order laser harmonics: a source of coherent radiation in the extreme UV and attosecond pulses”**
M. Bellini
Short Course - Advances in Optical Technologies for Environment and Industries, Cagliari, Italy, 25-26/5/2006
- 70) **“Direct interferometric measurement of the atomic dipole phase in high-order harmonic generation”**
C. Corsi, A. Pirri, E. Sali, A. Tortora, M. Bellini
2006 Conference on Super Intense Laser Atom Physics, Salamanca, Spain, 19-22/6/2006
- 71) **“Direct interferometric measurement of the atomic dipole phase in high-order harmonic generation”**
C. Corsi, A. Pirri, E. Sali, A. Tortora, and M. Bellini
15th International Laser Physics Workshop (LPHYS’06), Lausanne, Switzerland 24-28/7/2006
- 72) **(Invited) “Tomographic characterization and Bell’s inequality test for remotely-prepared, single-photon, time-encoded, ebits”**
A. Zavatta, V. Parigi, M. D’Angelo, M. Bellini
15th International Laser Physics Workshop (LPHYS’06), Lausanne, Switzerland 24-28/7/2006
- 73) **(Invited) “Remotely-prepared single-photon time-encoded ebits: tomographic characterization and Bell’s inequality test”**
M. D’Angelo, A. Zavatta, V. Parigi, M. Bellini
Quantum Communications and Quantum Imaging IV (SPIE Symposium on Optics & Photonics), San Diego, USA, 13-14/8/2006
- 74) **(Invited) “Generation of nonclassical states from thermal radiation”**
A. Zavatta, M. D’Angelo, V. Parigi, M. Bellini
Quantum Communications and Quantum Imaging IV (SPIE Symposium on Optics & Photonics), San Diego, USA, 13-14/8/2006
- 75) **(Invited) “Generation, manipulation, and tomographic analysis of quantum light states”**
A. Zavatta, M. D’Angelo, V. Parigi, M. Bellini
Classical and Quantum Interference Workshop, Olomouc, Czech Republic 28-29/9/2006
- 76) **(Invited) “Generation and tomographic analysis of temporally-delocalized single photons”**
A. Zavatta, V. Parigi, M. D’Angelo, M. Bellini
Frontiers in Optics 2006 and Laser Science XXII, 90th OSA Annual Meeting, Rochester, USA, 8-12/10/2006
- 77) **“Experimental nonclassicality of single-photon-added thermal light states”**
A. Zavatta, V. Parigi, M. Bellini
Eighth International Conference on Quantum Communication, Measurement, and Computing (QCMC2006), Tsukuba, Japan, 1-4/12/2006
- 78) **“Remotely-prepared, time-encoded, single-photon entangled states: tomographic characterization and Bell’s inequality test”**
A. Zavatta, M. D’Angelo, V. Parigi, M. Bellini
Eighth International Conference on Quantum Communication, Measurement, and Computing (QCMC2006), Tsukuba, Japan, 1-4/12/2006
- 79) **“Thermal light manipulation by addition or subtraction of single photons”**

- A. Zavatta, V. Parigi, M. Bellini
Ninth Rochester Conference on Coherence and Quantum Optics, CQO9, Rochester NY, USA, 10-13/6/2007
- 80) **(Invited) “Manipulating thermal light states by the controlled addition and subtraction of single photons”**
 A. Zavatta, V. Parigi, M. Bellini
16th International Laser Physics Workshop (LPHYS'07), Leon, Mexico, 20-24/8/2007
- 81) **(Invited) “High-order laser harmonics: a new coherent source for high-resolution spectroscopy in the extreme ultraviolet”**
 M. Bellini
High Resolution Molecular Spectroscopy HRMS, 20th Colloquium, Dijon, France, 3-7/9/2007
- 82) **“Generation and characterization of quantum states of light”**
 A. Zavatta, V. Parigi, M. Bellini
Quantum Astronomy Meeting, Asiago, Italy, 5/9/2007
- 83) **(Invited) “High-order laser harmonics: a novel tool for high-resolution spectroscopy in the extreme ultraviolet”**
 M. Bellini
International Symposium on Ultrafast Intense Laser Science - ISUILS6, Pisa, Italy, 23-29/9/2007
- 84) **“Analisi multispettrale e tomografia ottica coerente per l'analisi dello strato pittorico ed il controllo della pulitura”**
 M. Bellini, R. Bellucci, P. Carcagni, R. Fontana, M. Greco, M. Mastroianni, M. Materazzi, E. Pampaloni, L. Pezzati
Giornata di studio: “Il dipinto di Antonello da Messina a Palazzo Madama: Indagini conoscitive e restauro”, Torino, Italy, 7/6/2007
- 85) **“Quantum Commutation Rules with Single-Photon Creation and Annihilation Operators”**
 A. Zavatta, V. Parigi, M. S. Kim, M. Bellini
New Frontiers in Micro and Nano Photonics, Firenze, Italy, 23-26/4/2008
- 86) **“Probing quantum commutation rules by adding and subtracting single photons to/from a light field”**
 A. Zavatta, V. Parigi, M. S. Kim, M. Bellini
Quantum Astronomy Meeting, Bled Lake, Slovenia, 26-28/3/2008
- 87) **(Invited) “Probing fundamental quantum rules by experimental implementation of photon creation and annihilation operators”**
 A. Zavatta, V. Parigi, M. Bellini
Advances in Foundations of Quantum Mechanics and Quantum Information with atoms and photons, Torino, Italy, 19-23/5/2008
- 88) **(Invited) “Generation and tomographic analysis of quantum states of light”**
 A. Zavatta, V. Parigi, M. Bellini
CEWQO 2008 - 15th Central European Workshop on Quantum Optics 2008, Belgrade, Serbia, 30/5-3/6 2008
- 89) **(Invited) “Probing Quantum Rules with Single-Photon Creation and Annihilation Operators”**
 A. Zavatta, V. Parigi, M. Bellini
Quantum Entanglement and Decoherence: 3rd International Conference on Quantum Information (ICQI), Boston, USA, 13-16/7/2008
- 90) **(Invited) “Probing the Quantum Nature of Light”**
 A. Zavatta, V. Parigi, M. Bellini
The Fifth National Meeting on Quantum, Atomic, Molecular and Plasma Physics, QuAMP V, Nottingham, UK, 9-12/9/2008
- 91) **(Invited) “Implementing single-photon creation and annihilation operators for fundamental tests of physics”**
 A. Zavatta, V. Parigi, M. Bellini
IQIS2008- Italian Quantum Information Science Conference 2008, Camerino, Italy, 24-29/10/2008

- 92) **(Invited) “Experimental single-photon creation and annihilation for fundamental tests of physics and quantum state engineering “**
M. Bellini
SCALA 2009 - International Conference on Scalable Quantum Computing with Light and Atoms, Cortina D’Ampezzo, Italy, 15-22/2/2009
- 93) **“Ramsey-Type Spectroscopy in the XUV spectral region”**
A. Pirri, E. Sali, S. Cavalieri, M. Bellini, C. Corsi, R. Eramo
Ultra-Intense Laser Interaction Science conference (ULIS2009), Frascati, Italy, 24-29/5/2009
- 94) **(Invited) “Arbitrary superpositions of quantum operators and direct experimental proof of commutation relations”**
M. Bellini
Quantum Optics VII, Quantum Engineering of Atoms and Photons, Zakopane, Poland, 8-12/6/2009
- 95) **“Experimental proof of commutation rules by superpositions of quantum operators”**
M. Bellini
11th International Conference on Squeezed States and Uncertainty Relations (ICSSUR ’09), Olomouc, Czech Republic, 22-26/6/2009
- 96) **“Ramsey spectroscopy with high-order harmonics in the XUV”**
A. Pirri, E. Sali, S. Cavalieri, M. Bellini, C. Corsi, R. Eramo
18th International Laser Physics Workshop (LPHYS’07), Barcelona, Spain, 13-17/7/2009
- 97) **“Superpositions of bosonic operator sequences by single-photon interference”**
M.S. Kim, H. Jeong, A. Zavatta, V. Parigi, M. Bellini
18th International Laser Physics Workshop (LPHYS’07), Barcelona, Spain, 13-17/7/2009
- 98) **“Ramsey spectroscopy of atomic bound states with extreme ultraviolet laser harmonics”**
I. Lontos, C. Corsi, R. Eramo, S. Cavalieri, M. Bellini
UltraFast Optics (UFO VII) and High Field Short Wavelength (HFSW XIII) Conference, Arcachon, France, 31/8-4/9/2009
- 99) **“Producing and manipulating quantum light states by single-photon addition and subtraction”**
A. Zavatta, V. Parigi, C. Polycarpou, M. Bellini
Fotonica 2010, Pisa 25-27/5/2010
- 100) **“Ramsey spectroscopy of atomic bound states with extreme ultraviolet laser harmonics”**
I. Lontos, C. Corsi, R. Eramo, S. Cavalieri and M. Bellini
Fotonica 2010, Pisa 25-27/5/2010
- 101) **(Invited) “Manipulating light states by single-photon addition and subtraction”**
M. Bellini, A. Zavatta, V. Parigi
5th Workshop ad memoriam of Carlo Novero, Advances in Foundations of Quantum Mechanics and Quantum Information with atoms and photons, Torino, Italy, 23-29/5/2010
- 102) **(Invited) “Advanced quantum state generation and manipulation by adding and subtracting single photons”**
M. Bellini, A. Zavatta, C. Polycarpou, M. Locatelli
XIII International Conference on Quantum Optics and Quantum Information, Kiev, Ukraine, 28/5-1/6/2010
- 103) **(Invited) “Producing and manipulating quantum light states by single-photon addition and subtraction”**
M. Bellini
17th Central European Workshop on Quantum Optics (CEWQO 2010), St. Andrews, UK, 6-11/6/2010
- 104) **(Invited) “Manipulating light states by single-photon addition and subtraction”**
M. Bellini
CV-QIP’10: 7th Workshop on Continuous-Variable Quantum Information Processing, Herrsching (Ammersee), Germany, 11-14/6/2010

- 105) **“Random sampling Fourier Transform spectroscopy in the extreme ultraviolet”**
R. Eramo, M. Bellini, S. Cavalieri, C. Corsi, and I. Lontos
Tenth European Conference on Atoms Molecules and Photons (ECAMP X), Salamanca, Spain, 4-9/7/2010
- 106) **(Invited) “Manipulating light states by single-photon addition and subtraction”**
M. Bellini
Workshop on Transport in Complex Quantum Systems, Novara, Italy, 5-7/7/2010
- 107) **“Experimental realization of quantum operations by single-photon addition and subtraction”**
A. Zavatta, C. Polycarpou, M. Locatelli, M. Bellini
Società Italiana di Fisica, XCVI Congresso Nazionale, Bologna, 20-24/9/2010
- 108) **(Invited) “High-fidelity noiseless amplification by photon addition and subtraction”**
A. Zavatta, M. Locatelli, C. Polycarpou, J. Fiurasek, and M. Bellini
SPIE Optics + Optoelectronics, Prague, Czech Republic, 18-21/4/2011
- 109) **(Invited) “Experimental coherent superpositions of quantum operators for noiseless amplification and advanced state manipulation”**
A. Zavatta, M. Locatelli, C. Polycarpou, and M. Bellini
Fourth Italian Quantum information science conference, Vietri sul Mare, Italy, 18-20/4/2011
- 110) **“High-fidelity noiseless amplification of light”**
A. Zavatta, M. Locatelli, C. Polycarpou, and M. Bellini
Fotonica 2011, Genova 9-11/5/2011
- 111) **“Experimental coherent superpositions of quantum operators for noiseless amplification and advanced state manipulation”**
A. Zavatta, M. Locatelli, C. Polycarpou, and M. Bellini
12th International Conference on Squeezed States and Uncertainty Relations (ICSSUR) and 5th Feynman Festival (FEYNFEST), Foz do Iguazu, Brazil, 2-6/5/2011
- 112) **“Random-sampling Ramsey-like spectroscopy in the XUV”**
R. Eramo, I. Lontos, S. Cavalieri, C. Corsi and M. Bellini
20th International Conference on Laser Spectroscopy (ICOLS 2011), Aenzen, Germany, 30/5-3/6/2011
- 113) **(Invited) “Photon addition and subtraction for noiseless amplification and advanced state manipulation”**
A. Zavatta, M. Locatelli, C. Polycarpou, and M. Bellini
18th Central European Workshop on Quantum Optics, Madrid, Spain, 30/5-3/6/2011
- 114) **(Invited) “Coherent superpositions of photon additions and subtractions for noiseless amplification and advanced quantum state manipulation”**
A. Zavatta, M. Locatelli, C. Polycarpou, and M. Bellini
International Conference on Quantum Information (ICQI), Ottawa, Canada, 6-8/6/2011
- 115) **(Invited) “Single-photon-level light manipulation and amplification”**
A. Zavatta, C. Polycarpou, and M. Bellini
Conference on Quantum Information and Quantum Control (CQIQC IV), Toronto, Canada, 8-12/8/2011
- 116) **(Invited) “Manipulating pulsed light at the single-photon level and investigating the “shape” of ultrashort quantum states”**
A. Zavatta, K. Cassemiro, G. Venturi, C. Polycarpou, and M. Bellini
Quantum Technologies: Information, Communication and Computation (Italy-TWIns-Waseda 2011), Tokyo, Japan, 7-8/11/2011
- 117) **(Invited) “Manipulating pulsed light at the single-photon level and investigating the “shape” of ultrashort quantum states”**
A. Zavatta, K. Cassemiro, G. Venturi, C. Polycarpou, and M. Bellini

The International Meeting on Quantum Foundations and Quantum Information 2011 (QFQI2011), Seoul, South Korea, 16-17/11/2011

118) **(Post-deadline) “Adaptive measurement of the spectral and temporal shape of ultrashort single photons for higher-dimensional quantum information processing”**

A. Zavatta, C. Polycarpou, K. N. Cassemiro, G. Venturi, and M. Bellini

Quantum Information and Measurement (QIM), Berlin, Germany, 19-21/03/2012

119) **(Invited) “Manipulation of quantum light at the single-photon level and by ultrafast pulse-shaping techniques”**

A. Zavatta

Continuous Variable Quantum Information Processing 2012 (CVQIP'12), Copenhagen, Denmark, 26-30/04/2012

120) **“Time-Frequency Characterisation of Ultrashort Single-Photon Pulses”**

G. Venturi, C. Polycarpou, K. N. Cassemiro, A. Zavatta, and M. Bellini

Fotonica 2012, 14° Convegno Nazionale delle Tecnologie fotoniche, Firenze, Italy, 15-17/05/2012

121) **“Random-Sampling Fourier Transform Spectroscopy in the Extreme Ultraviolet”**

R. Eramo, M. Bellini, C. Corsi, I. Lontos, and S. Cavalieri

Fotonica 2012, 14° Convegno Nazionale delle Tecnologie fotoniche, Firenze, Italy, 15-17/05/2012

122) **(Invited) “Manipulating pulsed light at the single-photon level and investigating the “shape” of ultrashort quantum states”**

A. Zavatta, C. Polycarpou, K. N. Cassemiro, G. Venturi, M. Bellini

6th Workshop ad memoriam of Carlo Novero, Advances in Foundations of Quantum Mechanics and Quantum Information with atoms and photons (Quantum 2012), Torino, Italy, 20-25/05/2012

123) **(Invited) “Adaptively detecting and harnessing the spectrotemporal shape of ultrashort quantum light states”**

C. Polycarpou, K. Cassemiro, G. Venturi, A. Zavatta, and M. Bellini

5th Italian Quantum Information Science Conference (IQIS 2012), Padova, Italy, 26-28/09/2012

124) **“Adaptive homodyne detection of quantum light states”**

C. Polycarpou, K. Cassemiro, G. Venturi, A. Zavatta, and M. Bellini

Continuous-Variable Quantum Information Processing Workshop (CVQIP'2013), Paris, France, 30/01-01/02/2013

125) **(Invited) “Single-photon-level manipulation and mode analysis of ultrashort quantum light states”**

M. Bellini

Photons beyond Qubits Workshop 2013, Olomouc, Czech Republic, 08-10/04/2013

126) **(Invited) “Manipulation and analysis of quantum states of light in the frequency-time domain”**

A. Zavatta, C. Polycarpou, S. Grandi, L. Costanzo, and M. Bellini

20th Central European Workshop on Quantum Optics, Stockholm, Sweden, 16-20/6/2013

127) **(Invited) “Mode-selective generation and analysis of ultrashort quantum light states”**

M. Bellini

13th International Conference on Squeezed States and Uncertainty Relations (ICSSUR 2013), Nuremberg, Germany, 24-28/06/2013

128) **(Invited) “Mode-selective generation and analysis of ultrashort quantum light states in the time-frequency domain”**

M. Bellini, A. Zavatta, C. Polycarpou, S. Grandi, L. Costanzo, A. Coelho

6th Italian Quantum Information Science Conference (IQIS2013), Como, Italy, 24-26/09/2013

129) **(Invited) “Experimental operator sequences and superpositions for noiseless amplification and hybrid entanglement”**

M. Bellini

Workshop on Quantum Metrology, Interaction, and Causal Structure, Beijing, China, 9-13/12/2013

130) **(Invited) “Hybrid quantum-classical entangled states”**

M. Bellini

Photons beyond Qubits Workshop 2014, Olomouc, Czech Republic, 14-17/04/2014

131) **“Multimode photonic quantum states in the frequency and time domain”**

A. Coelho, L.S. Costanzo, A. Zavatta, and M. Bellini

Fotonica 2014, 16° Convegno Nazionale delle Tecnologie fotoniche, Napoli, Italy, 12-14/05/2014

132) **(Invited) “Generating hybrid quantum-classical entangled states of light”**

H. Jeong, A. Zavatta, M. Kang, S.-W. Lee, L.S. Costanzo, S. Grandi, T.C. Ralph, and M. Bellini

Workshop ad memoriam of Carlo Novero, Advances in Foundations of Quantum Mechanics and Quantum Information with atoms and photons (Quantum 2014), Torino, Italy, 25-31/05/2014

133) **(Invited) “Generating hybrid quantum-classical entangled states of light”**

M. Bellini

21st Central European Workshop on Quantum Optics (CEWQO 2014), Bruxelles, Belgium, 23-27/06/2014

134) **“Generating hybrid quantum-classical entangled states of light”**

M. Bellini

INO Annual Symposium 2014, Brescia, Italy, 1-3/10/2014

135) **(Invited) “A quantum state orthogonalizer and CV qubit generator”**

M. Bellini

Photons beyond Qubits Workshop 2015, Olomouc, Czech Republic, 16-18/03/2015

136) **(Invited) “Continuous-variable state orthogonalizer and qubit generator”**

M. Bellini, A. Coelho, L. Costanzo, A. Zavatta, C. Hughes and M.S. Kim,

14th International Conference on Squeezed States and Uncertainty Relations (ICSSUR 2015), Gdansk, Poland, 29/06-03/07/2015

137) **(Invited) “Continuous variable quantum optics”**

M. Bellini

PICQUE Roma Scientific School, Scientific School in integrated quantum photonics applications: from simulation to sensing, Rome, Italy, 6-10/07/2015

138) **(Invited) “XUV frequency metrology”**

M. Bellini

EXTREME LIGHT INFRASTRUCTURE (ELI) Workshop, CNR Headquarters, Rome, Italy, 09/10/2015

139) **(Invited) “Zero-Area Ultrashort Single Photons”**

M. Bellini, L.S. Costanzo, A.S. Coelho, D. Pellegrino, M.S. Mendes, L. Acioli, K. Cassemiro, D. Felinto, and A. Zavatta

Frontiers in Optics: The 99th OSA Annual Meeting and Exhibit/Laser Science XXXI (FiO/LS 2015), San Jose, California, USA, 18-22/10/2015

140) **(Invited) “Shaping ultrashort single photons”**

M. Bellini

Spectral and Spatial Engineering of Quantum Light, Warsaw, Poland, 30/03-01/04/2016

141) **(Invited) “Manipulating the shape of ultrashort single photons”**

M. Bellini

9th Italian Quantum Information Science Conference (IQIS 2016), Rome, Italy, 20-23/09/2016

142) **(Invited) “Measurement-induced quantum state engineering and emulation of strong optical nonlinearities”**

M. Bellini

QUANTUM 2017 – Workshop ad memoriam of Carlo Novero, Torino, Italy, 7-13/05/2017

143) **(Invited) “Measurement-induced quantum state engineering and emulation of strong optical nonlinearities”**

M. Bellini

24th Central European Workshop on Quantum Optics (CEWQO 2017), Lyngby, Denmark, 26-30/06/2017

- 144) **(Plenary) “Conditional quantum state engineering, entanglement generation, and emulation of optical nonlinearities”**
M. Bellini
XV International Conference on Quantum Optics and Quantum Information (ICQOQI 2017), Minsk, Belarus, 20-23/11/2017
- 145) **“Entangling macroscopic light states via delocalized single photon addition”**
M. Bellini, N. Biagi, L.S. Costanzo, and A. Zavatta
25th Central European Workshop on Quantum Optics (CEWQO 2018), Palma de Mallorca, Spain, 21-25/05/2018
- 146) **(Invited) “Quantum light state engineering and entanglement generation by multimode photon addition”**
M. Bellini, N. Biagi, L.S. Costanzo, and A. Zavatta
IEEE Photonic Society, Summer Topicals Meeting Series 2018, Waikoloa, HI, USA, 9-11/07/2018
- 147) **(Invited) “Entanglement by Delocalized Single Photon Addition”**
M. Bellini, N. Biagi, L.S. Costanzo, and A. Zavatta
ECAMP 13, 13th European Conference on Atoms Molecules and Photons, Firenze, Italy, 8-12/4/2019
- 148) **(Invited) “Delocalized photon addition for entangling macroscopic light states”**
M. Bellini, N. Biagi, L.S. Costanzo, and A. Zavatta
Quantum 2019, From Foundations of Quantum Mechanics to Quantum Information and Quantum Metrology & Sensing, Torino, Italy, 26/5-1/6/2019
- 149) **“Field trial of a finite-key quantum key distribution system in the Florence metropolitan area”**
D. Bacco, I. Vagniluca, B. Da Lio, N. Biagi, A. Della Frera, D. Calonico, C. Toninelli, F.S. Cataliotti, M. Bellini, L.K. Oxenløwe, and A. Zavatta
Quantum 2019, From Foundations of Quantum Mechanics to Quantum Information and Quantum Metrology & Sensing, Torino, Italy, 26/5-1/6/2019
- 150) **(Invited) “Generation, manipulation, and detection of continuous variable quantum states of light”**
M. Bellini
PhD School in Quantum Technologies, Ischia, Italy, 15-21/9/2019
- 151) **(Invited) “Quantum light state and mode engineering”**
M. Bellini
Quantum Science and Technology Conference 2019, Xi’an, China, 10/10/2019
- 152) **(Invited) “Quantum light state and mode engineering”**
M. Bellini
Quantum Science and Technology Workshop 2019, Taiyuan, China, 16/10/2019
- 153) **(Invited) “Manipulating the character and shape of ultrashort quantum light states”**
M. Bellini
Quantum light for investigating complex molecules and materials - Theo Murphy international scientific meeting, The Royal Society at Chicheley Hall, Buckinghamshire, UK, 25/11/2019
- 154) **(Invited) “Manipulating the character and shape of ultrashort quantum light states”**
M. Bellini
3^o International School on Quantum Technologies, Krasnaya Polyana, Russia, 1-7/3/2020
- 155) **(Invited) “Entanglement generation by coherent multimode photon addition”**
M. Bellini
7th Annual Bristol Quantum Information Technologies Workshop, Bristol, UK, 27-30/4/2020
- 156) **(Invited) “Entanglement and dis correlation by coherent multimode photon addition”**
M. Bellini
NONGAUSS Online Workshop 2021, 18-20/5/2021

157) **“Remote Phase Sensing by Coherent Single Photon Addition”**

M. Bellini, N. Biagi, S. Francesconi, M. Gessner, and A. Zavatta

13th Italian Quantum Information Science Conference (IQIS 2021), Napoli, Italy, 10-15/10/2021

158) **“Using Coherent Multimode Photon Addition for Sensing a Remote Phase”**

N. Biagi, S. Francesconi, M. Gessner, A. Zavatta, and M. Bellini

Quantum Information and Measurement VI, Optica Virtual conference, 1-5/11/2021

159) **(Invited) “Photon-by-photon engineering of quantum light states”**

M. Bellini

Quantum Research and Education in Europe and in Ukraine, Virtual Conference, 27-28/07/2022

160) **(Invited) “Manipulating the character and shape of ultrashort quantum light states”**

M. Bellini

The International Conference on Laser Spectroscopy, ICOLS 2023, Estes Park, Colorado, USA, 25-30/06/2023

69 *Invited Presentations*

1 *Plenary Presentation*

PARTICIPATION TO CONFERENCES AND SCHOOLS

- *International School of Physics "Enrico Fermi", course CXX, "Frontiers in Laser Spectroscopy", Villa Monastero, Varenna (CO), Italy, 23/6-3/7/1992*
- *XIII Colloquium on High Resolution Molecular Spectroscopy, Riccione, Italy, 13-17/9/1993*
- *IV European Quantum Electronics Conference and VII Italian Conference on Quantum Electronics, Firenze, Italy, 10-13/9/1993*
- *Secondo convegno italiano di spettroscopia e dinamica delle molecole interstellari, Rovereto, (Trento), Italy, 18-20/11/1993*
- *XVIII Congresso del settore di Fisica Atomica e Molecolare del GNSM-CNR e IV Congresso della sezione A dell'INFM, Firenze, Italy, 26-29/10/94*
- *Twelfth International Conference on Laser Spectroscopy (TWICOLS '95), Island of Capri, Italy, 11-16/6/95*
- *Generation and application of ultrashort X-ray pulses -II-, Pisa, Italy, 20-23/9/95*
- *7th International Conference on Multiphoton Processes (ICOMP VII), Garmisch-Partenkirchen, Germany, 30/9-4/10/1996*
- *XIX Congresso del settore di Fisica Atomica e Molecolare del GNSM-CNR e VI Congresso della sezione A dell'INFM, Perugia, Italy, 23-26/10/96*
- *VII Congresso della sezione A dell'INFM, Bari, Italy, 23-26/10/97*
- *The Sixth European Conference on Atomic and Molecular Physics (ECAMP VI), Siena, Italy, 14-18/7/1998*
- *CLEO/Europe '98 (Conference on Lasers and Electro-Optics) and EQEC '98 (European Quantum Electronics Conference), Scottish Exhibition and Conference Centre, Glasgow, Scotland, UK, 14-18/9/1998*
- *LXXXIV Congresso nazionale della Società italiana di Fisica, Salerno, 28/9-2/10/1998*
- *Intense laser fields: X-ray generation and applications, Euroepan users meeting, Centre de Physique Des Houches, Les Houches, France, 8-11/3/1999*
- *Ultraintense Laser Interactions and Applications, ULIA-1, Elounda, Crete, Greece, 7-11/5/1999*
- *International Conference on Atomic Physics, ICAP 2000, Firenze, Italy, 4-9/6/2000*
- *Matter in Super-Intense Laser Fields, Euresco Conference, Acquafredda di Maratea, Italy, 9-14/9/2000*
- *Ultraintense Laser Interactions and Applications, ULIA 2, Pisa, Italy, 29/9-03/10/2000*
- *Eight Rochester Conference on Coherence and Quantum Optics, CQO8, Rochester NY, USA, 13-16/6/2001*
- *Matter in Super-Intense Laser Fields, Euresco Conference, San Feliu de Guixols, Spain, 29/9-4/19/2001*
- *International Quantum Electronics Conference, IQEC 2002, Moscow, Russia, 22-27/6/2002*
- *Recent trends in nonlinear optics and ultra-short pulse generation, Pavia, Italy, 15-16/6/2003*

- *International Conference on Ultrashort high-energy radiation and matter*, Villa Monastero, Varenna, Italy, 7-10/10/2003
- *Applications of high-field and short-wavelength sources X*, Biarritz, France, 12-15/10/2003
- *Attosecond generation, metrology and applications*, Ringberg Castle, Rottach-Egern, Germany, 4-7/4/2004
- *Advances in foundations of quantum mechanics and quantum information with atoms and photons*, Torino, Italy, 26-28/4/2004
- *9th International Conference on Squeezed States and Uncertainty Relations (ICSSUR '05)*, Besancon, France, 2-6/5/2005
- *International Conference on Coherent and Nonlinear Optics (ICONO 2005)*, St. Petersburg, Russia, 11-15/5/2005
- *International Conference on Lasers, Applications, and Technologies (LAT 2005)*, St. Petersburg, Russia, 11-15/5/2005
- *Ultra short XUV pulses for time-resolved and non-linear applications (XTRA Summer School)*, Porquerolles, France, 25-28/5/2005
- *The Nature of Light: What is a Photon? (SPIE Symposium on Optics & Photonics)*, San Diego, USA, 31/7-4/8/2005
- *Quantum Communications and Quantum Imaging III (SPIE Symposium on Optics & Photonics)*, San Diego, USA, 31/7-4/8/2005
- *European Workshop on "Plasma-based X-ray Lasers: Status and Prospects"*, Prague, Czech Republic, 1-2/9/2005
- *Advances in foundations of quantum mechanics and quantum information with atoms and photons*, Torino, Italy, 2-5/5/2006
- *Advances in Optical Technologies for Environment and Industries*, Cagliari, Italy, 25-26/5/2006
- *2006 Conference on Super Intense Laser Atom Physics*, Salamanca, Spain, 19-22/6/2006
- *Frontiers in Optics 2006 and Laser Science XXII, 90th OSA Annual Meeting*, Rochester, USA, 8-12/10/2006
- *Ninth Rochester Conference on Coherence and Quantum Optics, CQO9*, Rochester NY, USA, 10-13/6/2007
- *Laser Physics 2007*, Leon, Mexico, 20-24/8/2007
- *High Resolution Molecular Spectroscopy HRMS, 20th Colloquium*, Dijon, France, 3-7/9/2007
- *International Symposium on Ultrafast Intense Laser Science - ISUILS6*, Pisa, Italy, 23-29/9/2007
- *Advances in Foundations of Quantum Mechanics and Quantum Information with atoms and photons*, Torino, Italy, 19-23/5/2008
- *CEWQO 2008 - 15th Central European Workshop on Quantum Optics 2008*, Belgrade, Serbia, 30/5-3/6 2008
- *Quantum Entanglement and Decoherence: 3rd International Conference on Quantum Information (ICQI)*, Boston, USA, 13-16/7/2008
- *The Fifth National Meeting on Quantum, Atomic, Molecular and Plasma Physics, QuAMP V*, Nottingham, UK, 9-12/9/2008
- *IQIS2008- Italian Quantum Information Science Conference 2008*, Camerino, Italy, 24-29/10/2008

- *SCALA 2009 - International Conference on Scalable Quantum Computing with Light and Atoms*, Cortina D'Ampezzo, Italy, 15-22/2/2009
- *Quantum Optics VII, Quantum Engineering of Atoms and Photons*, Zakopane, Poland, 8-12/6/2009
- *11th International Conference on Squeezed States and Uncertainty Relations (ICSSUR '09)*, Olomouc, Czech Republic, 22-26/6/2009
- *5th Workshop ad memoriam of Carlo Novero, Advances in Foundations of Quantum Mechanics and Quantum Information with atoms and photons*, Torino, Italy, 23-29/5/2010
- *XIII International Conference on Quantum Optics and Quantum Information*, Kiev, Ukraine, 28/5-1/6/2010
- *17th Central European Workshop on Quantum Optics (CEWQO 2010)*, St. Andrews, UK, 6-11/6/2010
- *CV-QIP'10: 7th Workshop on Continuous-Variable Quantum Information Processing*, Herrsching (Ammersee), Germany, 11-14/6/2010
- *Workshop on Transport in Complex Quantum Systems*, Novara, Italy, 5-7/7/2010
- *Fourth Italian Quantum information science conference*, Vietri sul Mare, Italy, 18-20/4/2011
- *12th International Conference on Squeezed States and Uncertainty Relations (ICSSUR) and 5th Feynman Festival (FEYNFEST)*, Foz do Iguazu, Brazil, 2-6/5/2011
- *18th Central European Workshop on Quantum Optics*, Madrid, Spain, 30/5-3/6/2011
- *International Conference on Quantum Information (ICQI)*, Ottawa, Canada, 6-8/6/2011
- *Conference on Quantum Information and Quantum Control (CQIQC IV)*, Toronto, Canada, 8-12/8/2011
- *Quantum Technologies: Information, Communication and Computation (Italy-TWIns-Waseda 2011)*, Tokyo, Japan, 7-8/11/2011
- *The International Meeting on Quantum Foundations and Quantum Information 2011 (QFQI2011)*, Seoul, South Korea, 16-17/11/2011
- *5th Italian Quantum Information Science Conference (IQIS 2012)*, Padova, Italy, 26-28/09/2012
- *Continuous-Variable Quantum Information Processing Workshop (CVQIP'2013)*, Paris, France, 30/01-01/02/2013
- *Photons beyond Qubits Workshop 2013*, Olomouc, Czech Republic, 08-10/04/2013
- *13th International Conference on Squeezed States and Uncertainty Relations (ICSSUR 2013)*, Nuremberg, Germany, 24-28/06/2013
- *6th Italian Quantum Information Science Conference (IQIS2013)*, Como, Italy, 24-26/09/2013
- *Workshop on Quantum Metrology, Interaction, and Causal Structure*, Beijing, China, 9-13/12/2013
- *Photons beyond Qubits Workshop 2014*, Olomouc, Czech Republic, 14-17/04/2014
- *Workshop ad memoriam of Carlo Novero, Advances in Foundations of Quantum Mechanics and Quantum Information with atoms and photons (Quantum 2014)*, Torino, Italy, 25-31/05/2014
- *21st Central European Workshop on Quantum Optics (CEWQO 2014)*, Bruxelles, Belgium, 23-27/06/2014

- *INO Annual Symposium 2014*, Brescia, Italy, 1-3/10/2014
- *Photons beyond Qubits Workshop 2015*, Olomouc, Czech Republic, 16-18/03/2015
- *14th International Conference on Squeezed States and Uncertainty Relations (ICSSUR 2015)*, Gdansk, Poland, 29/06-03/07/2015
- *PICQUE Roma Scientific School, Scientific School in integrated quantum photonics applications: from simulation to sensing*, Rome, Italy, 6-10/07/2015
- *EXTREME LIGHT INFRASTRUCTURE (ELI) Workshop*, CNR Headquarters, Rome, Italy, 09/10/2015
- *Frontiers in Optics: The 99th OSA Annual Meeting and Exhibit/Laser Science XXXI (FIO/LS 2015)*, San Jose, California, USA, 18-22/10/2015
- *Spectral and Spatial Engineering of Quantum Light*, Warsaw, Poland, 30/03-01/04/2016
- *9th Italian Quantum Information Science Conference (IQIS 2016)*, Rome, Italy, 20-23/09/2016
- *QUANTUM 2017 – Workshop ad memoriam of Carlo Novero*, Torino, Italy, 7-13/05/2017
- *24th Central European Workshop on Quantum Optics (CEWQO 2017)*, Lyngby, Denmark, 26-30/06/2017
- *10th Italian Quantum Information Science conference (IQIS 2017)*, Florence, Italy, 12-15/09/2017
- *XV International Conference on Quantum Optics and Quantum Information (ICQOQI 2017)*, Minsk, Belarus, 20-23/11/2017
- *25th Central European Workshop on Quantum Optics (CEWQO 2018)*, Palma de Mallorca, Spain, 21-25/05/2018
- *IEEE Photonic Society, Summer Topicals Meeting Series 2018*, Waikoloa, HI, USA, 9-11/07/2018
- *ECAMP 13, 13th European Conference on Atoms Molecules and Photons*, Firenze, Italy, 8-12/4/2019
- *Quantum 2019, From Foundations of Quantum Mechanics to Quantum Information and Quantum Metrology & Sensing*, Torino, Italy, 26/5-1/6/2019
- *PhD School in Quantum Technologies*, Ischia, Italy, 15-21/9/2019
- *Quantum Science and Technology Conference 2019*, Xi'an, China, 10/10/2019
- *Quantum Science and Technology Workshop 2019*, Taiyuan, China, 16/10/2019
- *Quantum light for investigating complex molecules and materials - Theo Murphy international scientific meeting*, The Royal Society at Chicheley Hall, Buckinghamshire, UK, 25/11/2019
- *3^o International School on Quantum Technologies*, Krasnaya Polyana, Russia, 1-7/3/2020
- *7th Annual Bristol Quantum Information Technologies Workshop*, Bristol, UK, 27-30/4/2020
- *NONGAUSS Online Workshop 2021*, 18-20/5/2021
- *13th Italian Quantum Information Science Conference (IQIS 2021)*, Napoli, Italy, 10-15/10/2021
- *Quantum Information and Measurement VI*, Optica Virtual conference, 1-5/11/2021
- *Quantum Research and Education in Europe and in Ukraine*, Virtual Conference, 27-28/07/2022

- *The International Conference on Laser Spectroscopy, ICOLS 2023, Estes Park, Colorado, USA, 25-30/06/2023*
- *Central European Workshop on Quantum Optics, CEWQO23, Milan, 3-7/07/2023*

PARTICIPATION TO CONFERENCE COMMITTEES

The Second International Conference on Quantum, Nano, and Micro Technologies (ICQNM 2008)

10-15/02/2008 - Sainte Lucie, Martinique

Technical Program Committee

XVI International Conference on Ultrafast Phenomena (UP2008)

09-13/06/2008 Stresa (Lago Maggiore), Italy

Local Organizing Committee

The Third International Conference on Quantum, Nano and Micro Technologies (ICQNM 2009)

01-06/2/2009 - Cancun, Mexico

Technical Program Committee

11th International Conference on Squeezed States and Uncertainty Relations (ICSSUR) and 4th Feynman Festival (FEYNFEST)

22-26/06/2009, Olomouc, Czech Republic

Program and Advisory committee

The Fourth International Conference on Quantum, Nano and Micro Technologies (ICQNM 2010)

10-16/02/2010 - St. Maarten, Netherlands Antilles

Technical Program Committee

SPIE Optics + Optoelectronics 2011

Quantum Optics and Quantum Information Transfer and Processing

18-21/04/2011, Prague Congress Centre, Prague, Czech Republic

Program Committee

12th International Conference on Squeezed States and Uncertainty Relations (ICSSUR) and 5th Feynman Festival (FEYNFEST)

02-06/05/2011, Foz do Iguaçu, Brazil

International Advisory Board

Fotonica 2012, 14° Convegno Nazionale delle Tecnologie Fotoniche

15-17/05/2012, Florence, Italy

Technical Program Committee

SPIE Optics + Optoelectronics 2013

Quantum Optics and Quantum Information Transfer and Processing

15-18/04/2013, Clarion Congress Hotel, Prague, Czech Republic

Program Committee

Quantum Information Processing and Communication (QIPC 2013)

30/06-05/07/2013, Florence, Italy

Organizer and Chair

Fotonica 2014, 16° Convegno Nazionale delle Tecnologie Fotoniche

12-14/05/2014, Napoli, Italy

Technical Program Committee

SPIE Optics + Optoelectronics 2015

Quantum Optics and Quantum Information Transfer and Processing

13-16/04/2015, Clarion Congress Hotel, Prague, Czech Republic

Program Committee

14th International Conference on Squeezed States and Uncertainty Relations (ICSSUR 2015)

29/06-03/07/2015, Gdańsk, Poland

International Program Committee

Fotonica 2015, 17° Convegno Nazionale delle Tecnologie Fotoniche
06-08/05/2015, Torino, Italy

Technical Program Committee

Fotonica 2016, 18° Convegno Nazionale delle Tecnologie Fotoniche
06-08/06/2016, Roma, Italy

Technical Program Committee

XV International Conference on Quantum Optics and Quantum Information 2017
20-23/11/2017, Minsk, Belarus

International Advisory Committee