

QCMC 2018@LSU—Poster Session 1—March 12, 2018

EASYCHAIR NUMBER	POSTER NUMBER	AUTHORS	TITLE
2	1	Janik Wolters, Gianni Buser, Lucas Béguin, Roberto Mottola, Jan-Philipp Jahn, Andrew Horsley, Oliver G. Schmidt, Fei Ding, Armando Rastelli, Richard J. Warburton and Philipp Treutlein	<i>Towards heterogeneous quantum networks with quantum dot single photons and rubidium quantum memories</i>
5	2	Yu Zhou and Weibo Gao	<i>Room-temperature solid state quantum emitters in the telecom range</i>
7	3	Mary Catherine Lorio, Margarite Laborde and Jonathan Dowling	<i>Quantum Eraser with Applications to Optical Quantum Information Processing of Polarization-Encoded Qubits</i>
9	4	Lior Cohen, Yehuda Pilnyak, Daniel Istrati, Alex Retzker and Hagai Eisenberg	<i>Demonstration of a Bit-Flip Correction for Enhanced Sensitivity Measurements</i>
11	5	Krzysztof Kaczmarek, Patrick Ledingham, Benjamin Brecht, Sarah Thomas, Guillaume Thekkadath, Oscar Lazo-Arjona, Joseph Munns, Eilon Poem, Amir Feizpour, Dylan Saunders, Joshua Nunn and Ian A. Walmsley	<i>A high-speed noise-free optical quantum memory</i>
13	6	Stefano Mancini	<i>Uncertainty relation for classical capacity of quantum channels</i>
14	7	Lijun Ma, Oliver Slattery and Xiao Tang	<i>Spectral characterization of narrow linewidth single photon sources</i>
15	8	Dmitry Vasilyev, Frank Schumann, Franz-Josef Giebels, Herbert Gollisch, Juergen Kirschner and Roland Feder	<i>Experimental evidence of spin-entanglement between two electrons freely propagating over a macroscopic distance</i>
17	9	Eneet Kaur and Mark Wilde	<i>Upper bounds on secret key agreement over lossy thermal channels</i>
18	10	Christoph Wildfeuer, Willi Meier, Tanvirul Islam and Alexander Ling	<i>Towards Quantum-Safe Symmetric-Key Cryptography for Secure Networks</i>
19	11	Stefan Baeuml, Andreas Winter and Dong Yang	<i>Every entangled state provides an advantage in classical communication</i>
20	12	Victor Bastidas, Thi Ha Kyaw, Jirawat Tangpanitanon, Guillermo Romero, Leong-Chuan Kwek and Dimitris Angelakis	<i>Floquet stroboscopic divisibility in non-Markovian dynamics</i>
24	13	Siddhartha Das, Sumeet Khatri and Jonathan Dowling	<i>Robust quantum network architectures and topologies for entanglement distribution</i>
25	14	Siddhartha Das, Stefan Baeuml and Mark Wilde	<i>Entanglement and secret key agreement capacities of bipartite quantum interactions and read-only memory devices</i>

28	16	Michele Dall'Arno, Sarah Brandsen, Francesco Buscemi and Vlatko Vedral	<i>Device-Independent Tests of Quantum States, Channels, and Measurements</i>
29	17	Marcin Markiewicz, Zbigniew Puchała, Anna de Rosier, Wiesław Laskowski and Karol Życzkowski	<i>Quantum noise generated by local random Hamiltonians</i>
30	18	Kevin Valson Jacob, Anthony Mirasola, Sushovit Adhikari and Jonathan Dowling	<i>Quantum process tomography of linear and quadratically nonlinear optical systems</i>
31	19	Joseph Chapman, Charles Ci Wen Lim, Christopher Zeidler and Paul Kwiat	<i>Hyperentangled Time-bin and Polarization QKD for Free-Space Communication</i>
33	20	Giovanni Guccione, Adrien Cavaillès, Tom Darras, Hanna Le Jeannic, Jérémy Raskop, Kun Huang and Julien Laurat	<i>Optical hybrid entanglement: a resource for quantum networks</i>
35	21	Nicholas Studer, Lior Cohen, Yehuda Pilnyak, Daniel Istrati and Hagai Eisenberg	<i>Absolute self-calibration of single-photon and multiplexed photon-number-resolving detectors</i>
36	22	Laszlo Gyongyosi	<i>Quantum Circuit Design Automation for Gate-Model Quantum Computers</i>
37	23	Yadong Wu, Abdullah Khalid and Barry Sanders	<i>Efficient Code for Relativistic Quantum Summoning</i>
38	24	Michael Epping, Filippo Miatto and Norbert Lütkenhaus	<i>Noise Bounds for Quantum Repeaters</i>
39	25	Dave Touchette, Benjamin Lovitz and Norbert Lütkenhaus	<i>Practical Quantum Appointment Scheduling</i>
41	26	Kok Chuan Bobby Tan, Hyunseok Jeong, Hyukjoon Kwon and Seongjeon Choi	<i>Coherence, Quantum Fisher Information, Superradiance and Entanglement are Interconvertible Resources</i>
42	27	Muataz Alhoussein and Kyo Inoue	<i>Encrypting-deviced QKD working as measurement device independent system</i>
43	28	Masataka Inuma, Yutaro Suzuki, Masayuki Nakano and Holger F. Hofmann	<i>Using entanglement to observe non-classical error correlations in a quantum measurement</i>
44	29	Yan Yu	<i>A criterion for maximally six-qubit entangled states via coefficient matrices</i>
45	30	Linxi Zhang, Changhua Zhu and Changxing Pei	<i>Randomized benchmarking with unitary t-design</i>
46	31	Jonas Nils Becker, Christian Weinzetl, Johannes Görlitz, Eilon Poem, Joshua Nunn, Ian Alexander Walmsley and Christoph Becher	<i>Silicon vacancy ensembles in diamond for strong light-matter interactions</i>
48	32	Daniel Terno	<i>Relativistic quantum information: challenges and opportunities of space-based metrology</i>
49	33	Xiaxi Cheng	<i>A compact inertial sensor using atom interferometry: pushing towards high-dynamic range</i>

50	34	Henry Hesten	<i>Decondensation in non-equilibrium photonic condensates: when less is more</i>
51	35	Andrew Simmons	<i>How (maximally) contextual is quantum mechanics?</i>
52	36	Mikolaj Lasota, Karolina Sedziak and Piotr Kolenderski	<i>Optimal photon pairs for quantum communication</i>
53	37	Noah Davis, Maksim Shirokov and Mark Wilde	<i>Energy Constrained Two-Way Assisted Private and Quantum Capacities of Quantum Channels</i>
54	38	Leon Bello, Yaakov Shaked and Avi Pe'Er	<i>Ultra Broadband Squeezing and Pairwise Mode-Locking of Coupled Parametric Oscillators</i>
55	39	Lorenzo Maccone, Majid Hassani and Chiara Macchiavello	<i>Digital Quantum Metrology</i>
57	40	Kunal Sharma, Mark M. Wilde, Sushovit Adhikari and Masahiro Takeoka	<i>Bounding the energy-constrained quantum and private capacities of phase-insensitive quantum Gaussian channels</i>
59	41	Hee Jung Lee and Hee Su Park	<i>Generation and Transmission of High-Dimensional Spatial Entanglement between Multi-core Optical Fibers</i>
61	42	Eunjoo Lee, Hee Jung Lee, Sang Min Lee and Hee Su Park	<i>Time-Multiplexing of Heralded Telecom-Band Single-Photon Sources Using Dispersion-Compensated Optical Fiber Delays</i>
62	43	Austin Lund, Ryan Marshman, Timothy Ralph and Peter Rohde	<i>Passive quantum error correction of linear optics networks through error averaging</i>
64	44	Si-Hui Tan, Yingkai Ouyang, Liming Zhao and Joseph Fitzsimons	<i>A quantum secret-sharing scheme that allows secure quantum evaluations</i>
65	45	Changhun Oh, Su-Yong Lee, Hyunchul Nha and Hyunseok Jeong	<i>Practical probes and measurements for phase estimation in lossy environment</i>
66	46	Yaakov Shaked, Yoad Michael, Leon Bello, Michael Rosenbluh and Avi Pe'Er	<i>Parametric Homodyne – Lifting the Bandwidth Limit of Quantum Measurement</i>
68	47	Nobuyuki Matsuda, Antoine Bergeot and Takahiro Kashiwazaki	<i>Dispersion engineering of PPLN thin-film waveguide for the generation of spectrally-pure photons</i>
69	48	Johannes Nokkala, Francesco Arzani, Fernando Galve, Roberta Zambrini, Sabrina Maniscalco, Jyrki Piilo, Nicolas Treps and Valentina Parigi	<i>Reconfigurable optical implementation of quantum complex networks</i>
70	49	Makoto Kubodera and Hidemitsu Awai	<i>Automatic Quantum Circuit Generator by Genetic Programming and Three-qubit Superdense Coding to Transmit Three Classical Bit Codes</i>
73	51	Karolina Sedziak, Mikolaj Lasota and Piotr Kolenderski	<i>Experimental demonstration of remote temporal wavepacket narrowing</i>
74	52	Qi Yin, Guo-Yong Xiang, Chuang-Feng Li and Guang-Can Guo	<i>Adaptive compressed sensing quantum state tomography</i>
75	53	Sebastien Boissier, Samuele Grandi, Kyle Major, Christopher Reardon, Thomas Krauss, Alex Clark and Edward Hinds	<i>Nanofluidic integration of photostable single molecules with a single-mode waveguide</i>

76	54	Hachiro Fujita	<i>A new distributed source coding problem related to the classical-quantum Slepian–Wolf problem</i>
78	55	Xiaoping Ma, Chenglong You, Sushovit Adhikari, Elisha S. Matekole, Hwang Lee and Jonathan P. Dowling	<i>Sub-shot-noise-limited phase estimation via $SU(1,1)$ interferometer with thermal states</i>
80	56	Martin Bohmann, Andrii Semenov, Jan Sperling and Werner Vogel	<i>Quantum light in atmospheric channels</i>
81	57	Urbasi Sinha	<i>Observing and tuning Feynman paths in a classical regime</i>
82	58	Alexey Okulov	<i>Vortex Michelson Interferometer</i>
83	59	Elisha S. Matekole, Deepti Vaidyanathan, Kenji W. Arai, Ryan T. Glasser, Hwang Lee and Jonathan P. Dowling	<i>Room-Temperature Photon-Number-Resolved Detection Using A Two-Mode Squeezer</i>
84	60	Adam Lawrence, Joe Randall, Simon Webster, Sebastian Weidt, Nikolay Vitanov and Winfried Hensinger	<i>Generation of high-fidelity quantum control methods for multi-level systems</i>
85	61	Hemlin Swaran Rag and Julio Gea-Banacloche	<i>Possible schemes for a single photon switch</i>
86	62	Balakrishnan Viswanathan and Julio Gea-Banacloche	<i>Analytical results for a conditional phase shift between single-photon pulses in a nonlocal medium</i>
89	63	Vincent E. Elfving, Sumanta Das and Anders Søndberg Sørensen	<i>Coupling a superconducting qubit to light using hybrid qubit-quantum dot nanostructures</i>
90	64	Alexander Hill, Joseph Szabo, Joseph Chapman, Christopher Chopp, Kyle Herndon, Dalton Chaffee, Daniel Gauthier and Paul Kwiat	<i>Toward Free-Space Quantum Key Distribution between Multirotor Drones</i>
92	65	Masahiro Takeoka, Kaushik Seshadreesan and Mark Wilde	<i>Unconstrained capacities of quantum key distribution and entanglement distillation for pure-loss bosonic broadcast channels</i>
94	66	Spyros Tserkis, Josephine Dias and Timothy Ralph	<i>Entanglement-based identification of continuous-variable error correction against Gaussian noise</i>
96	67	Chenglong You, Sushovit Adhikari, Yuxi Chi, Margarite Laborde, Corey Matyas, Chenyu Zhang, Zuen Su, Tim Byrnes, Chaoyang Lu, Jonathan Dowling and Jonathan Olson	<i>Multiparameter estimation with single photons —Linearly-optically generated quantum entanglement beats the shotnoise limit</i>
109	76	Jing Hao Chai and Hui Khoon Ng	<i>A practical and nuanced approach to comparing different fault-tolerant error correction schemes</i>
97	68	Shuchao Lv, Kai Zhang, Wei Wang, Hailong Wang, Jun Xin, Leiming Cao, Sijin Li, Li Wang, Jinjian Du and Jietai Jing	<i>Multipartite Quantum Entanglement and Quantum Correlation from cascaded Four-wave Mixing Processes with spatial multiplexing</i>

99	69	Peter Johnson, Jhonathan Romero, Jonathan Olson, Yudong Cao and Alan Aspuru-Guzik	<i>QVECTOR: an algorithm for device-tailored quantum error correction</i>
100	70	Kai Shinbrough, Bin Fang, Yanting Teng, Yujie Zhang, Offir Cohen and Virginia Lorenz	<i>Quantum State Purity of Stokes Photons from Sapphire</i>
101	71	Armen Allahverdyan and Arshag Danageozian	<i>Excluding joint probabilities from quantum theory</i>
102	72	Kenji Nakahira, Kentaro Kato and Tsuyoshi Sasaki Usuda	<i>Optimal unambiguous state discrimination with sequential measurement</i>
103	73	Zhibo Hou	<i>Deterministic Realization of Superefficient Collective Measurements via Photonic Quantum Walks</i>
107	74	Ulysse Chabaud, Tom Douce, Damian Markham, Peter van Loock, Elham Kashefi and Giulia Ferrini	<i>Continuous-variable sampling from photon-added or photon-subtracted squeezed states</i>
108	75	Yink Loong Len and Hui Khoon Ng	<i>Open-System Quantum Error Correction</i>

QCMC 2018@LSU—Poster Session 2—March 13, 2018

EASYCHAIR NUMBER	POSTER NUMBER	AUTHORS	TITLE
71	50	Mikhail Kolobov, Maria Chekhova, Semen Germanskiy, Dmitri Horoshko, Galiya Kitaeva, Gerd Leuchs, Chris Phillips and Pavel Prudkovskii	<i>Monocycle squeezed light and its up-conversion</i>
111	77	Jiangshan Chen, Meng-Jun Hu, Xiao-Min Hu, Bi-Heng Liu and Yong-Sheng Zhang	<i>Realization of Sequential Weak Measurements of Arbitrary N Non-commuting Observables</i>
112	78	Pavel Bushev, Jared Cole, Dmitriy Sholokhov, Nadezhda Kukharchyk and Magdalena Zych	<i>Single electron relativistic clock interferometer</i>
114	80	Keisuke Sato, Souichi Takahira and Tsuyoshi Usuda	<i>SIC ensemble is "Scrooge" with second-order mutual Renyi information criterion</i>
116	81	Johannes Tiedau, Tim J. Bartley, Georg Harder, Thomas Gerrits and Christine Silberhorn	<i>Limits on generating higher-order Fock states with parametric down conversion</i>
117	82	Patrick F. Poitras, Deny R. Hamel and Evan Meyer-Scott	<i>Double-heralded single photons from cascaded downconversion</i>
118	83	Sarah Thomas, Joseph Munns, Krzysztof Kaczmarek, Patrick Ledingham, Dylan Saunders, Joshua Nunn, Benjamin Brecht and Ian A. Walmsley	<i>High-dimensional Temporal Mode Manipulation using Quantum Memories</i>
119	84	Andrew Horsley, Patrick Appel, Janik Wolters, Jocelyn Achard, Alexandre Tallaire, Patrick Maletinsky and Philipp Treutlein	<i>Microwave device characterisation using a quantum diamond microscope</i>
120	85	Mirko Cormann, Mathilde Remy and Yves Caudano	<i>Revisiting the quantum three-box paradox using weak measurements and the Majorana representation of the states on the Bloch sphere</i>
121	86	Tim Coopmans, Roeland Ter Hoeven, Filip Rozpedek, Rob Knegjens, Julio de Oliveira Filho, Stephanie Wehner and David Elkouss	<i>Analysis and design of a quantum network via discrete event simulation</i>
122	87	Fabian Laudenbach, Bernhard Schrenk, Christoph Pacher, Philip Walther and Hannes Hübel	<i>First Continuous Quadrature Modulation for Continuous-Variable Quantum Key Distribution</i>
125	88	Neil Corzo, Jeremy Raskop, Aavek Chandra, Baptiste Gouraud, Alexandra Sheremet and Julien Laurat	<i>Single Collective Atomic Excitation in 1D Chains of Trapped Atoms Near a Nanoscale Waveguide</i>
126	89	Cinthia Huerta Alderete and Blas Manuel Rodríguez Lara	<i>Simulation of two-mode quantum Rabi models</i>
127	90	Cinthia Huerta Alderete and Blas Manuel Rodríguez Lara	<i>Quantum simulation of para-particles</i>

129	92	Animesh Datta and Theodoros Kapourniotis	<i>Fault-tolerant quantum metrology</i>
130	160	Helen Chrzanowski, Peter Humphreys, Animesh Datta and Ian Walmsley	<i>Quantum Enhanced Microscopy with Squeezed Light</i>
131	93	Christopher Wade, Helen Chrzanowski, Xian-Min Jin, Joshua Nunn, Animesh Datta and Ian Walmsley	<i>Self-phase Modulation as a Microscopy Contrast Mechanism with Favourable Resource Scaling</i>
133	95	Chandrashekar Radhakrishnan, Mathieu Lauriere and Tim Byrnes	<i>Conditional Quantum Discords and Quantum Correlations in Tripartite Systems</i>
134	96	Jon D. Swaim, Erin M. Knutson and Ryan T. Glasser	<i>Does strong absorption preclude quantum correlation?</i>
135	97	Aaron Goldberg and Daniel James	<i>Non-classical states that generate no entanglement with a beam splitter</i>
136	98	Lu Zhang and Kam Wai Clifford Chan	<i>Generation of multi-mode high-NOON states</i>
137	99	Beatrice Da Lio, Davide Bacco, Daniele Cozzolino, Yunhong Ding, Kjeld Dalgaard, Karsten Rottwitt and Leif Oxenloewe	<i>Experimental DPTS QKD protocol over 170 km of single mode fiber</i>
138	100	Daniele Cozzolino, Davide Bacco, Beatrice Da Lio, Yunhong Ding, Kjeld Dalgaard, Karsten Rottwitt and Leif Oxenloewe	<i>Fibre based quantum key distribution with structured light</i>
139	101	Davide Bacco, Yunhong Ding, Daniele Cozzolino, Beatrice Da Lio, Kjeld Dalgaard, Karsten Rottwitt and Leif Oxenloewe	<i>High-dimensional quantum communication based on spatial modes</i>
140	102	Roberto Mottola, Andrew Horsley, Gianni Buser, Janik Wolters, Lucas Béguin, Jan-Philipp Jahn, Richard J. Warburton and Philipp Treutlein	<i>Atomic Quantum Memory in the Paschen-Back Regime</i>
142	103	Mingtao Cao, Pierre Vernaz-Gris, Kun Huang, Alexandra Sheremet and Julien Laurat	<i>Highly-Efficient Quantum Memory for Polarization Qubits in a Spatially-Multiplexed Cold Atomic Ensemble</i>
143	104	R. Nicholas Lanning	<i>Quantized Nonlinear Gaussian-Beam Dynamics--- Tailoring Multimode Squeezed-Light Generation</i>
144	105	Ravi Rau	<i>Quantum Discord in Arbitrary Dimensions</i>
145	106	Devin Hugh Smith, Matthew T. Posner, T. Heimstra, Rex H. S. Bannerman, Paolo L. Mennea, W. Steven Kolthammer, James C. Gates, Ian A. Walmsley and Peter G.R. Smith	<i>Creating photons on chip using four-wave mixing in silica waveguides</i>
146	107	Tobias Gehring, Fabian Furrer, Christian Schaffner, Christoph Pacher, Roman Schnabel and Stephanie Wehner	<i>Experimental Continuous-Variable Oblivious Transfer</i>

147	108	Kyungjoo Noh	<i>Knill-Laflamme Condition for Autonomous (Continuous-time) Quantum Error Correction</i>
149	109	Omar S. Magana-Loaiza, Roberto De J. Leon-Montiel, Armando Perez-Leija, Alfred U'Ren, Kurt Busch, Adriana E. Lita, Sae Woo Nam, Richards Mirin and Thomas Gerrits	<i>Multiphoton Hong-Ou-Mandel Interferometry with Entangled Photon-Subtracted States</i>
150	110	Zhihao Xiao, R. Nicholas Lanning, Mi Zhang, Melissa Guidry, Irina Novikova, Eugeny E. Mikhailov and Jonathan P. Dowling	<i>Multimode Approach to Quantum Diffraction</i>
151	111	Robert Fickler, Samuel Lemieux, Enno Giese, Maria V. Chekhova and Robert W. Boyd	<i>Intensity calibration of spectrometers using SPDC: An alternative to black body radiation</i>
152	112	Vito Giovanni Lucivero, Nathaniel David McDonough, Wonjae Lee and Michael Romalis	<i>Towards quantum-enhancement of an atomic gradiometer with multipass cells</i>
153	113	Rajveer Nehra, Aye Win and Olivier Pfister	<i>Quantum tomography of a heralded single-photon Fock state with photon-number-resolving measurements</i>
154	114	Mehdi Namazi, Bertus Jordaan, Changsuk Noh, Dimitris G. Angelakis and Eden Figueroa	<i>An Analog Quantum Simulator Using Spinor Slow Light</i>
155	115	Ebubechukwu Ilo-Okeke, Louis Tessler, Jonathan Dowling and Tim Byrnes	<i>Quantum clock synchronization without synchronized clocks</i>
156	116	Timothy Woodworth, Carla Hermann-Avigliano, Kam Wai Clifford Chan and Alberto M. Marino	<i>Reaching the Quantum Cramér-Rao Bound for Transmission with a Simple Measurement Scheme</i>
157	117	Mohammadjavad Dowran, Ashok Kumar, Benjamin Lawrie, Raphael Pooser and Alberto Marino	<i>Quantum-Enhanced Plasmonic Sensing with Different Detection Schemes</i>
159	118	Bertus Jordaan, Steven Sagona-Stophel, Sonali Gera, Chris Ianzano, Reihaneh Shahrokhshahi and Eden Figueroa	<i>Towards Quantum Impedance Matching of Rb-tuned Quantum Light Sources to Atomic Ensembles</i>
160	119	Edwin Tham, Kent Bonsma-Fisher, Hugo Ferretti and Aephraim Steinberg	<i>Experimental Demonstration of A Fully Homomorphic Encryption Scheme</i>
161	120	Thinh Le Phuc, Philippe Faist, Jonas Helsen, David Elkouss and Stephanie Wehner	<i>Practical, reliable error bars for quantum channels</i>
162	121	Christopher Jackson, Ezad Shojaee, Ivan Deutsch, Carlos Riofrio and Amir Kalev	<i>Performing the spin-coherent state measurement with continuous Haar-random measurements</i>

163	122	Paolo L. Mennea, William Clements, Devin H. Smith, Rex H. S. Bannerman, Jelmer Renema, James C. Gates, W. Steven Kolthammer, Ian A. Walmsley and Peter G.R. Smith	<i>Reconfigurable Modular Devices for Integrated Quantum Optics</i>
164	123	Reihaneh Shahrokhshahi, Steven Sagona-Stophel, Bertus Jordaan, Mehdi Namazi and Eden Figueroa	<i>Atomic ensemble platforms for quantum logic gates</i>
165	124	Eden Figueroa, Mehdi Namazi, Mael Flament, Bertus Jordaan, Reihaneh Shahrokhshahi, Alessia Scriminich, Giuseppe Vallone and Paolo Villoresi	<i>A quantum cryptographic network enhanced by quantum memories</i>
166	125	Carlos Viviescas and Juan Diego Urbina	<i>Entanglement dynamics and protection in conditional states</i>
167	126	Antia Lamas-Linares and James Troupe	<i>Quantum Secure Clock Synchronization</i>
168	127	Nathan Walk, Jonathan Barrett and Joshua Nunn	<i>Composable security of time frequency quantum key distribution: closing the finite-range detector loophole</i>
169	128	Gavin Brennen, Stephen Bartlett and Akimasa Miyake	<i>Robust symmetry-protected metrology with the Haldane phase</i>
170	129	Gerardo Paz Silva, Michael Hall and Howard Wiseman	<i>On the dynamics of initially correlated open quantum systems: theory and applications</i>
171	130	Abdallah Slaoui, Mohammed Daoud and Rachid Ahl Laamara	<i>The dynamics of the quantum correlations measured by the local quantum uncertainty and trace distance discord for the bipartite X states</i>
172	131	Marcin Wiesniak, Marek Żukowski, Wiesław Laskowski, Krzysztof Rosołek, Marcin Marciniak, Junghee Ryu, Dagomir Kaszlikowski and Arijit Dutta	<i>Normalized Stokes parameter in quantum optics</i>
174	132	Ryan Bennink, Pavel Lougovski and Brian Williams	<i>Quantum Process Identification: A Method for Characterizing non-Markovian Dynamics</i>
176	133	Marine Pigneur, Tarik Berrada, Marie Bonneau, Thorsten Schumm, Eugene Demler and Joerg Schmiedmayer	<i>Relaxation to a phase-locked equilibrium state in a one dimensional bosonic Josephson junction</i>
177	134	Xiaoji Zhou, Linxiao Niu, Shengjie Jin and Joerg Schmiedmayer	<i>Echo-Ramsey Interferometry with Atomic Motional Quantum States</i>
178	135	Yang Liu, Juan Miguel Arrazola, Wen-Zhao Liu, Weijun Zhang, Ignatius William Primaatmaja, Hao Li, Lixing You, Zhen Wang, Valerio Scarani, Qiang Zhang and Jian-Wei Pan	<i>Experimental covert communication against unbounded quantum adversary</i>
179	136	Kishore Kapale	<i>Cavity QED based Sequential Atom Entangler for Heisenberg-Limited Atom Interferometry</i>
180	137	Andreas Angerer, Kirill Streltsov, Thomas Astner, Jörg Schmiedmayer and Johannes Majer	<i>Superradiant Hybrid Quantum Devices</i>

181	138	Thomas Astner, Andreas Angerer, Johannes Gugler, Jörg Schmiedmayer, Peter Mohn and Johannes Majer	<i>Electron spin lifetime limited by phononic vacuum</i>
182	139	Yong-Su Kim, Tanumoy Pramanik, Young-Wook Cho, Sang-Wook Han, Sang-Yun Lee and Sung Moon	<i>Experimental verification of hidden quantum steering using local filtering operations</i>
183	140	Siddhartha Das, Sumeet Khatri, George Siopsis and Mark Wilde	<i>Fundamental limits on quantum dynamics based on entropy change</i>
184	141	Xiangyu Wang, Yichen Zhang, Song Yu and Hong Guo	<i>High Data Utilization Postprocessing for Continuous-variable Quantum Key Distribution</i>
185	142	Yuan Cao	<i>Direct Counterfactual Communication via Quantum Zeno Effect</i>
186	143	Yuval Sanders, Bryte Hagan, Dean Southwood, Sukhwinder Singh, Barry Sanders and Gavin Brennen	<i>Wavelet-Based Representations of Quantum Field Theory</i>
187	144	Adam Rutkowski	<i>Random and free observables saturate the Tsirelson bound for CHSH inequality</i>
188	145	Marcelo de Almeida	<i>Multi-photon experiments with solid-state single-photon sources</i>
189	146	Till Weinhold, Markus Rambach, W. Y. Sarah Lau and Andrew White	<i>Sub-Megahertz Linewidth Single Photon Source Suitable for Quantum Memories</i>
190	147	Sushamana Sharma and Rajshri Vyas	<i>Entanglement Measure Based On Computational Cross Norm Criterion</i>
191	148	Till J. Weinhold, Martin Ringbauer, Lewis A. Howard, Andrew White and Michael R. Vanner	<i>Generation of Mechanical Interference Fringes by Multi-Photon Quantum Measurement</i>
192	149	Min Jet Yap, Georgia Mansell, Robert Ward, Terry McRae, Bram Slagmolen, Daniel Shaddock and David McClelland	<i>EPR induced Frequency Dependent Squeezing for Gravitational Wave Detectors</i>
193	150	Sushamana Sharma, Rajshri Vyas and J Sharma	<i>Eigenvalue equation for two mode squeezed vacuum state</i>
194	151	Chen Dong, Wei Li and Shuwen Chen	<i>Heralded Quantum Key Distribution with Hybrid Entangled Entanglement</i>
195	152	Quan Quan	<i>Einstein-Podolsky-Rosen correlations and Bell correlations in the simplest scenario</i>
196	153	Chen Li, Tianwei Zhou, Hans-Peter Stimming, Igor Mazets, Zijie Zhu, Yueyang Zhai, Wei Xiong, Xiaoji Zhou, Xuzong Chen and Jörg Schmiedmayer	<i>Dephasing and Relaxation of Bosons in 1D: Newton's Cradle Revisited</i>
197	154	Anna de Rosier, Jacek Gruca, Fernando Parisio, Tamas Vertesi and Wiesław Laskowski	<i>Multipartite nonlocality and random measurements</i>
198	155	Jinglei Zhang and Klaus Mølmer	<i>Prediction and retrodiction with continuously monitored Gaussian states</i>
199	156	Thai Hoang, Jonghoon Ahn, Zhuqing Xu, Jaehoon Bang and Tongcang Li	<i>Spin-optomechanics of Optically Levitated Nanoparticles</i>

200	157	Abhishek Kulkarni and Pradeep Sarvepalli	<i>Efficiently decoding the 3D toric code on a cubic lattice with boundaries</i>
201	158	Amandeep Singh, Harpreet Singh and Arvind And Kavita Dorai	<i>Experimental Entanglement Detection of Unknown Tripartite States on Spin Ensemble using NMR</i>
202	159	Maggie Maggie Tse and Haocun Yu	<i>Quantum Noise Reduction for GravitationalWave Detectors</i>
203	160	Felix Leditzky, Eneet Kaur, Nilanjana Datta, Mark M. Wilde	<i>Bounds on quantum channel capacities from approximate additivity of channel information quantities</i>