

The Table of Contents is a total listing of Parts A and B.
Part A consists of pages L010201–012466, and Part B pages 012601–019901(E).

PART A

LETTERS

Fundamental concepts

- Detecting beyond-quantum nonlocality using standard local quantum observables (6 pages) L010201
Hayato Arai, Baichu Yu, and Masahito Hayashi
- Dissipative Dicke time crystals: An atom's point of view (6 pages) L010202
Simon B. Jäger, Jan Mathis Giesen, Imke Schneider, and Sebastian Eggert

Quantum information science

- Self-testing of genuine multipartite entangled states without network assistance (7 pages) L010401
Ranendu Adhikary, Abhishek Mishra, and Ramij Rahaman
- Faithful geometric measures for genuine tripartite entanglement (6 pages) L010402
Xiaozhen Ge, Lijun Liu, Yong Wang, Yu Xiang, Guofeng Zhang, Li Li, and Shuming Cheng
- Maximal intrinsic randomness of a quantum state (6 pages) L010403
Shuyang Meng, Fionnuala Curran, Gabriel Senno, Victoria J. Wright, Máté Farkas,
Valerio Scarani, and Antonio Acín
- Fermionic anyons: Entanglement and quantum computation from a resource-theoretic perspective (6 pages) L010404
Allan Tosta, Antônio C. Lourenço, Daniel Brod, Fernando Iemini, and Tiago Debarba

Quantum technologies

- Robust and fast microwave-driven quantum logic for trapped-ion qubits (6 pages) L010601
M. A. Weber, M. F. Gely, R. K. Hanley, T. P. Harty, A. D. Leu, C. M. Löschnauer,
D. P. Nadlinger, and D. M. Lucas
-  Homodyne detection is optimal for quantum interferometry with path-entangled coherent states (6 pages) L010602
Z. M. McIntyre and W. A. Coish

Atomic and molecular structure and dynamics; high-precision experiments

- Spin-precession method for sensitive electric dipole moment searches (5 pages) L010801
A. Boeschoten, V. R. Marshall, T. B. Meijknecht, A. Touwen, H. L. Bethlem, A. Borschevsky, S. Hoekstra,
J. W. F. van Hofslot, K. Jungmann, M. C. Mooij, R. G. E. Timmermans, W. Ubachs, and L. Willmann
(NL-*e*EDM Collaboration)



(Continued)



2469-9926(202407)110:1:B;1-Y

CONTENTS - *Continued*

PHYSICAL REVIEW A

THIRD SERIES, VOLUME 110, NUMBER 1

JULY 2024

Radiative lifetime of the $A^2\Pi_{1/2}$ state in RaF with relevance to laser cooling (7 pages)	L010802
M. Athanasakis-Kaklamanakis, S. G. Wilkins, P. Lassègues, L. Lalanne, J. R. Reilly, O. Ahmad, M. Au, S. W. Bai, J. Berbalk, C. Bernerd, A. Borschevsky, A. A. Breier, K. Chrysalidis, T. E. Cocolios, R. P. de Groote, C. M. Fajardo-Zambrano, K. T. Flanagan, S. Franchoo, R. F. Garcia Ruiz, D. Hanstorp, R. Heinke, P. Ingram, Á. Koszorús, A. A. Kyuberis, J. Lim, Y. C. Liu, K. M. Lynch, A. McGlone, W. C. Mei, G. Neyens, L. Nies, A. V. Oleynichenko, A. Raggio, S. Rothe, L. V. Skripnikov, E. Smets, B. van den Borne, J. Warbinek, J. Wessolek, and X. F. Yang	
Laser cooling of stored bunched relativistic Li-like oxygen ions (7 pages)	L010803
W. Q. Wen, H. B. Wang, D. Y. Chen, Z. K. Huang, Y. J. Yuan, D. C. Zhang, D. Winters, S. Klammes, S. Litvinov, D. Kiefer, Th. Walther, M. Loeser, M. Siebold, U. Schramm, N. Khan, J. Li, M. T. Tang, J. X. Wu, D. Y. Yin, L. J. Mao, J. C. Yang, S. F. Zhang, M. Bussmann, and X. Ma	
Light-induced processes in atomic-scale systems	
Propagation effects in resonant high-order harmonic generation and high-order frequency mixing in a laser plasma (5 pages)	L011101
V. V. Strelkov and M. A. Khokhlova	
Ultracold systems and matter waves	
 Modified mean-field ansatz for charged polarons in a Bose-Einstein condensate (6 pages)	L011301
Ubaldo Cavazos Olivas, Luis A. Peña Ardila, and Krzysztof Jachymski	
Photonics, nonlinear optics, and optomechanics	
Nonradiant multiphoton states in quantum ring oligomers (7 pages)	L011501
N. Ustimenko, D. Kornovan, I. Volkov, A. Sheremet, R. Savelev, and M. Petrov	

ARTICLES

Fundamental concepts

Nonlinear electrodynamics for the vacuum of Dirac materials: Photon magnetic properties and radiation pressures (15 pages)	012201
A. W. Romero Jorge, A. Pérez Martínez, and E. Rodríguez Querts	
Experimental test of the Collins-Gisin-Linden-Massar-Popescu inequality for multisetting and multidimensional orbital angular momentum systems (10 pages)	012202
Dongkai Zhang, Xiaodong Qiu, and Lixiang Chen	
Sharing quantum steering via standard projective measurements (11 pages)	012203
Shufen Dong, Zinuo Cai, Chunfeng Wu, and Changliang Ren	
Infinites in molecular quantum electrodynamics and generalized functions (11 pages)	012204
R. Guy Woolley	
Generation of Kochen-Specker contextual sets in higher dimensions by dimensional upscaling whose complexity does not scale with dimension and their applications (16 pages)	012205
Mladen Pavičić and Mordecai Waegell	
Superphenomena for arbitrary quantum observables (8 pages)	012206
Andrew N. Jordan, Yakir Aharonov, Daniele C. Struppa, Fabrizio Colombo, Irene Sabadini, Tomer Shushi, Jeff Tollaksen, John C. Howell, and A. Nick Vamivakas	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW A	THIRD SERIES, VOLUME 110, NUMBER 1	JULY 2024
Quantum trajectory entanglement in various unravelings of Markovian dynamics (<i>17 pages</i>)		012207
Tatiana Vovk and Hannes Pichler		
Discrete time crystals in the presence of non-Markovian dynamics (<i>8 pages</i>)		012208
Bandita Das, Noufal Jaseem, and Victor Mukherjee		
One-dimensional non-Hermitian band structures as Riemann surfaces (<i>11 pages</i>)		012209
Heming Wang, Lingling Fan, and Shanhui Fan		
Bell correlations of a thermal fully connected spin chain in the vicinity of a quantum critical point (<i>10 pages</i>)		012210
Danish Ali Hamza and Jan Chwedeńczuk		
Temperature-heat uncertainty relation in nonequilibrium quantum thermometry (<i>8 pages</i>)		012211
Ning Zhang, Si-Yuan Bai, and Chong Chen		
Perturbative dynamics in the pseudocoherent phase of the spin-boson model (<i>9 pages</i>)		012212
Jiarui Zeng and Yao Yao		
Zero-fluctuation quantum work extraction (<i>18 pages</i>)		012213
Raffaele Salvia and Vittorio Giovannetti		
Bayesian inference for near-field interferometric tests of collapse models (<i>11 pages</i>)		012214
Shaun Laing and James Bateman		
Converting nonlocality into contextuality (<i>6 pages</i>)		012215
Karl Svozil		
Traveling time in a spacetime-symmetric extension of nonrelativistic quantum mechanics (<i>12 pages</i>)		012216
Arlans J. S. de Lara and Marcus W. Beims		
Unbounded sequential multipartite nonlocality via violation of the Mermin inequality (<i>16 pages</i>)		012217
Bang-Zhu Shen and Mao-Sheng Li		
Importance of using the averaged mutual information when quantifying quantum objectivity (<i>7 pages</i>)		012218
Diana A. Chisholm, Luca Innocenti, and G. Massimo Palma		
Unmonitored and monitored recurrence in single-photon quantum walks (<i>11 pages</i>)		012219
Xiao-Xiao Chen, Ya-Jing Wang, An-Ning Zhang, Zhe Meng, Qing-Yuan Wu, Xin-Bing Song, and Xue-Shun Shi		
Symmetries and correlations in continuous time crystals (<i>10 pages</i>)		012220
Ankan Mukherjee, Yeshma Ibrahim, Michal Hajdušek, and Sai Vinjanampathy		
Aging of coupled qubits (<i>9 pages</i>)		012221
Huining Zhang, Dianshen Cui, W. Wang, and X. X. Yi		
Emergent strength-dependent scale-free mobility edge in a nonreciprocal long-range Aubry-André-Harper model (<i>9 pages</i>)		012222
Gui-Juan Liu, Jia-Ming Zhang, Shan-Zhong Li, and Zhi Li		
Violation of the two-time Leggett-Garg inequalities for a harmonic oscillator (<i>15 pages</i>)		012223
Kosei Hatakeyama, Daisuke Miki, Masaki Tani, Yuki Yamasaki, Satoshi Iso, Apriadi Salim Adam, Ar Rohim, and Kazuhiro Yamamoto		

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW A

THIRD SERIES, VOLUME 110, NUMBER 1

JULY 2024

Inelastic tunneling through normal and superconducting junctions in the presence of a photonic bath within the Lindbladian formalism (<i>11 pages</i>)	012224
Ádám Bácsi and Rok Žitko	
Efficient quantum work reservoirs at the nanoscale (<i>20 pages</i>)	012225
Jinghao Lyu, Alexander B. Boyd, and James P. Crutchfield	
Detecting exceptional points through dynamics in non-Hermitian systems (<i>11 pages</i>)	012226
Keshav Das Agarwal, Tanoy Kanti Konar, Leela Ganesh Chandra Lakkaraju, and Aditi Sen(De)	
Sunburst quantum Ising battery (<i>7 pages</i>)	012227
Akash Mitra and Shashi C. L. Srivastava	
Wigner non-negative states that verify the Wigner entropy conjecture (<i>9 pages</i>)	012228
Qipeng Qian and Christos N. Gagatsos	
One-time-pad encryption model for nonlocal correlations (<i>9 pages</i>)	012229
Govind Lal Sidhardh and Manik Banik	
Quantum signatures of the mixed classical phase space for three interacting particles in a circular trap (<i>11 pages</i>)	012230
D. J. Papoular and B. Zumer	
Relative-belief inference in quantum information theory (<i>15 pages</i>)	012231
Y. S. Teo, S. U. Shringarpure, H. Jeong, N. Prasannan, B. Brecht, C. Silberhorn, M. Evans, D. Mogilevtsev, and L. L. Sánchez-Soto	
Quantum information science	
Network nonlocality sharing in a two-forked tree-shaped network (<i>9 pages</i>)	012401
Hao Sun, Fenzhuo Guo, Haifeng Dong, and Fei Gao	
Robust quantum optimal control for Markovian quantum systems (<i>12 pages</i>)	012402
Ran Liu, Xiaodong Yang, and Jun Li	
Completely entangled subspaces of entanglement depth k (<i>11 pages</i>)	012403
Maciej Demianowicz, Kajetan Vogtt, and Remigiusz Augusiak	
Mitigating quantum gate errors for variational eigensolvers using hardware-inspired zero-noise extrapolation (<i>11 pages</i>)	012404
Alexey Uvarov, Daniil Rabinovich, Olga Lakhmanskaya, Kirill Lakhmanskiy, Jacob Biamonte, and Soumik Adhikary	
Monogamy of k -entanglement (<i>14 pages</i>)	012405
Yu Guo	
Nonpositive-transpose entanglement and bound entanglement: From distillability sets to inequalities and multivariable insights (<i>12 pages</i>)	012406
Si-Yuan Qi, Geni Gupur, Yu-Chun Wu, and Guo-Ping Guo	
Exploring many-body interactions through quantum Fisher information (<i>9 pages</i>)	012407
Paweł Cieśliński, Paweł Kurzyński, Tomasz Sowiński, Waldemar Kłobus, and Wiesław Laskowski	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW A	THIRD SERIES, VOLUME 110, NUMBER 1	JULY 2024
Quadrature coherence scale of linear combinations of Gaussian functions in phase space (<i>14 pages</i>)		012408
Anaëlle Hertz, Aaron Z. Goldberg, and Khabat Heshami		
Effect of alternating layered <i>Ansätze</i> on trainability of projected quantum kernels (<i>17 pages</i>)		012409
Yudai Suzuki and Muyuan Li		
Nonclassical resource for continuous-variable telecloning with non-Gaussian advantage (<i>14 pages</i>)		012410
Sudipta Das, Rivu Gupta, Himadri Shekhar Dhar, and Aditi Sen(De)		
Boosting biomolecular switch efficiency with quantum coherence (<i>8 pages</i>)		012411
Mattheus Burkhard, Onur Pusuluk, and Tristan Farrow		
Quantum Wasserstein distance between unitary operations (<i>12 pages</i>)		012412
Xinyu Qiu, Lin Chen, and Li-Jun Zhao		
Relations between quantum metrology and criticality in general $su(1,1)$ systems (<i>9 pages</i>)		012413
Rui Zhang, Wenkui Ding, Zhucheng Zhang, Lei Shao, Yuyu Zhang, and Xiaoguang Wang		
Success probabilities in time-reversal-based hybrid quantum state transfer (<i>20 pages</i>)		012415
Kevin Randles and S. J. van Enk		
Continuous-variable entanglement swapping with photon subtraction (<i>7 pages</i>)		012416
Na Wang, Meihong Wang, and Xiaolong Su		
Coherent errors in stabilizer codes caused by quasistatic phase damping (<i>12 pages</i>)		012417
Dávid Pataki, Áron Márton, János K. Asbóth, and András Pályi		
Einstein-Podolsky-Rosen steering criterion and monogamy relation via correlation matrices in tripartite systems (<i>10 pages</i>)		012418
Li-Juan Li, Xiao Gang Fan, Xue-Ke Song, Liu Ye, and Dong Wang		
Distance-four quantum codes with combined postselection and error correction (<i>13 pages</i>)		012419
Prithviraj Prabhu and Ben W. Reichardt		
Block Lanczos method for excited states on a quantum computer (<i>11 pages</i>)		012420
Thomas E. Baker		
Complementarity relationship between coherence and path distinguishability in an interferometer based on induced coherence (<i>7 pages</i>)		012421
Gerard J. Machado, Lluc Sendra, Adam Vallés, and Juan P. Torres		
Tight quantum depth lower bound for solving systems of linear equations (<i>10 pages</i>)		012422
Qisheng Wang and Zhicheng Zhang		
Nonreciprocal enhancement of macroscopic entanglement with noise tolerance (<i>11 pages</i>)		012423
Z.-H. Huang, Y.-F. Jiao, L.-L. Yan, D.-Y. Wang, S.-L. Su, and Hui Jing		
Entanglement-assisted quantum speedup: Beating local quantum speed limits (<i>12 pages</i>)		012424
Farha Yasmin and Jan Sperling		
Performance optimization of continuous-variable quantum teleportation with generalized photon-varying non-Gaussian operations (<i>12 pages</i>)		012425
Mingjian He and Shouyin Liu		

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW A

THIRD SERIES, VOLUME 110, NUMBER 1

JULY 2024

Mitigation of systematic amplitude error in nonadiabatic holonomic operations (<i>8 pages</i>)	012426
P. Z. Zhao and Jiangbin Gong	
Performance analysis of superconductor-constriction-superconductor transmon qubits (<i>10 pages</i>)	012427
Mingzhao Liu (刘铭钊) and Charles T. Black	
Depth scaling of unstructured search via quantum approximate optimization (<i>7 pages</i>)	012428
Ernesto Campos, Daniil Rabinovich, and Alexey Uvarov	
Interplay between nonequilibrium and non-Markovianity in controlling the entropic uncertainty bound (<i>10 pages</i>)	012429
Abdul Basit, Hamad Ali, Gao Xianlong, Peng-Bo Li, Gehad Sadiek, and Hichem Eleuch	
Quantum algorithm for solving the advection equation using Hamiltonian simulation (<i>12 pages</i>)	012430
Peter Brearley and Sylvain Laizet	
Theory of versatile fidelity estimation with confidence (<i>27 pages</i>)	012431
Akshay Seshadri, Martin Ringbauer, Jacob Spainhour, Thomas Monz, and Stephen Becker	
Ground-state chiral excitation via periodic modulation (<i>13 pages</i>)	012432
Shuyue Wang, Wuji Zhang, Chunfang Sun, Chunfeng Wu, and Gangcheng Wang	
Quantum Bayes classifiers and their application in image classification (<i>16 pages</i>)	012433
Ming-Ming Wang and Xiao-Ying Zhang	
Mixed-integer linear programming solver using Benders decomposition assisted by a neutral-atom quantum processor (<i>14 pages</i>)	012434
M. Yassine Naghmouchi and Wesley da Silva Coelho	
Non-Markov quantum belief propagation (<i>17 pages</i>)	012435
Jack Ceroni, Ian MacCormack, and Guillaume Verdon	
Generation of flying logical qubits using generalized photon subtraction with adaptive Gaussian operations (<i>10 pages</i>)	012436
Kan Takase, Fumiya Hanamura, Hironari Nagayoshi, J. Eli Bourassa, Rafael N. Alexander, Akito Kawasaki, Warit Asavanant, Mamoru Endo, and Akira Furusawa	
Almost-optimal computational-basis-state transpositions (<i>9 pages</i>)	012437
Steven Herbert, Julien Sorci, and Yao Tang	
Factory-based fault-tolerant preparation of quantum polar codes encoding one logical qubit (<i>14 pages</i>)	012438
Ashutosh Goswami, Mehdi Mhalla, and Valentin Savin	
 Disentanglement-induced multistability (<i>6 pages</i>)	012439
Eyal Buks	
Non-Markovian quantum dynamics from symmetric measurements (<i>9 pages</i>)	012440
Katarzyna Siudzińska	
Cabello's nonlocality argument for multisetting high-dimensional systems and its experimental test (<i>10 pages</i>)	012441
Ming Yang, Dongkai Zhang, and Lixiang Chen	
Noise mitigation in quantum teleportation (<i>9 pages</i>)	012442
Zi-Jian Xu and Jun-Hong An	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW A

THIRD SERIES, VOLUME 110, NUMBER 1

JULY 2024

Variational-quantum-eigensolver-inspired optimization for spin-chain work extraction (<i>9 pages</i>)	012443
Ivan Medina, Alexandre Drinko, Guilherme I. Correr, Pedro C. Azado, and Diogo O. Soares-Pinto	
Self-testing of multiple unsharpness parameters through sequential violations of a noncontextual inequality (<i>21 pages</i>)	012444
Rajdeep Paul, Souradeep Sasmal, and A. K. Pan	
Variational Gibbs state preparation on noisy intermediate-scale quantum devices (<i>14 pages</i>)	012445
Mirko Consiglio, Jacopo Settino, Andrea Giordano, Carlo Mastroianni, Francesco Plastina, Salvatore Lorenzo, Sabrina Maniscalco, John Goold, and Tony J. G. Apollaro	
Memory in quantum processes with indefinite time direction and causal order (<i>14 pages</i>)	012446
Göktuğ Karpat and Barış Çakmak	
Channel attention for quantum convolutional neural networks (<i>9 pages</i>)	012447
Gekko Budiutama, Shunsuke Daimon, Hirofumi Nishi, Ryui Kaneko, Tomi Ohtsuki, and Yu-ichiro Matsushita	
Entanglement structure detection via computer vision (<i>11 pages</i>)	012448
Rui Li, Junling Du, Zheng Qin, Shikun Zhang, Chunxiao Du, Yang Zhou, and Zhisong Xiao	
Anisotropic efficiency of adaptive measurements in two-parameter estimation for states in manifolds with nonzero Berry curvature (<i>7 pages</i>)	012449
Hai-Jun Xing	
Improved security analysis for phase-encoding twin-field quantum key distribution (<i>9 pages</i>)	012450
Yang-Guang Shan, Yao Zhou, Zhen-Qiang Yin, Shuang Wang, Wei Chen, De-Yong He, Guang-Can Guo, and Zheng-Fu Han	
Multiparty Spohn's theorem for a combination of local Markovian and non-Markovian quantum dynamics (<i>12 pages</i>)	012451
Ahana Ghoshal and Ujjwal Sen	
Quantifying subspace entanglement with geometric measures (<i>11 pages</i>)	012452
Xuanran Zhu, Chao Zhang, and Bei Zeng	
Increasing memory lifetime of quantum low-density parity check codes with sliding-window noisy syndrome decoding (<i>5 pages</i>)	012453
Shilin Huang and Shruti Puri	
Local measurement strategies for multipartite entanglement quantification (<i>16 pages</i>)	012454
Luke Coffman, Akshay Seshadri, Graeme Smith, and Jacob L. Beckey	
Nearly optimal state preparation for quantum simulations of lattice gauge theories (<i>29 pages</i>)	012455
Christopher F. Kane, Niladri Gomes, and Michael Kreshchuk	
Entanglement degradation under local dissipative Landau-Zener noise (<i>10 pages</i>)	012456
Melika Babakan, Arman Kashef, and Laleh Memarzadeh	
Optical cluster-state generation with unitary averaging (<i>9 pages</i>)	012457
Deepesh Singh, Austin P. Lund, and Peter P. Rohde	
Optimal unilocal virtual quantum broadcasting (<i>8 pages</i>)	012458
Hongshun Yao, Xia Liu, Chengkai Zhu, and Xin Wang	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW A

THIRD SERIES, VOLUME 110, NUMBER 1

JULY 2024

Stabilizing a single-magnon state by optimizing magnon blockade (<i>10 pages</i>)	012459
Zhu-yao Jin and Jun Jing	
Quantum communication on the bosonic loss-dephasing channel (<i>26 pages</i>)	012460
Francesco Anna Mele, Farzin Salek, Vittorio Giovannetti, and Ludovico Lami	
Entanglement across the sliding-pinned transition of ion chains in optical cavities (<i>14 pages</i>)	012461
Alan Kahan and Cecilia Cormick	
No-broadcasting of magic states (<i>8 pages</i>)	012462
Zijian Zhang, Lingxuan Feng, and Shunlong Luo	
Error-tolerant parity detector of cat-state qubits based on a topological quantum phase transition (<i>8 pages</i>)	012463
Yi-Hao Kang, Yu Wang, Qi-Ping Su, Guo-Qiang Zhang, Wei Feng, and Chui-Ping Yang	
Comparing coherent and incoherent models for quantum homogenization (<i>8 pages</i>)	012464
Anna Beever, Maria Violaris, Chiara Marletto, and Vlatko Vedral	
Redundant string symmetry-based error correction: Demonstrations on quantum devices (<i>12 pages</i>)	012465
Zhangjie Qin, Daniel Azses, Eran Sela, Robert Raussendorf, and V. W. Scarola	
Probing quantum phase transitions via quantum speed limits (<i>13 pages</i>)	012466
M. Suman, S. Aravinda, and Ranjan Modak	

PART B

Quantum technologies

Fast adiabatic preparation of multisqueezed states by jumping along the path (<i>8 pages</i>)	012601
Chuan Chen, Jian-Yu Lu, Xu-Yang Chen, and Zhen-Yu Wang	
Amorphous quantum magnets in a two-dimensional Rydberg atom array (<i>14 pages</i>)	012602
Sergi Julià-Farré, Joseph Vovrosh, and Alexandre Dauphin	
Optimized topological quantum compilation of three-qubit controlled gates in the Fibonacci anyon model: A controlled-injection approach (<i>14 pages</i>)	012603
Abdellah Tounsi, Nacer Eddine Belaloui, Mohamed Messaoud Louamri, Achour Benslama, and Mohamed Taha Rouabah	
Decompositions of multiple controlled-Z gates on various qubit-coupling graphs (<i>7 pages</i>)	012604
Ken M. Nakanishi, Takahiko Satoh, and Synge Todo	
Improving robustness of quantum feedback control with reinforcement learning (<i>12 pages</i>)	012605
Manuel Guatto, Gian Antonio Susto, and Francesco Ticozzi	
Efficient verification of two-colorable graph states (<i>19 pages</i>)	012606
Qingshan Xu, Xiaoqing Tan, Yangwei Ou, Daipengwei Bao, and Rui Huang	
Simulating quantum field theories on continuous-variable quantum computers (<i>13 pages</i>)	012607
Steven Abel, Michael Spannowsky, and Simon Williams	
Semi-device-independent certification of quantum non-Markovianity using sequential random access codes (<i>14 pages</i>)	012608
Abhinash Kumar Roy, Varun Srivastava, Soumik Mahanti, Christina Giarmatzi, and Alexei Gilchrist	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW A	THIRD SERIES, VOLUME 110, NUMBER 1	JULY 2024
Asynchronous measurement-device-independent quantum digital signatures (<i>15 pages</i>)		012609
Jing-Wei Bian, Bing-Hong Li, Yuan-Mei Xie, Hua-Lei Yin, and Zeng-Bing Chen		
Fast nuclear-spin entangling gates compatible with large-scale atomic arrays (<i>13 pages</i>)		012610
Xiao-Feng Shi and Yan Lu		
Adiabatic bottlenecks in quantum annealing and nonequilibrium dynamics of paramagnons (<i>13 pages</i>)		012611
Tim Bode and Frank K. Wilhelm		
Doubling the efficiency of Hamiltonian simulation via generalized quantum signal processing (<i>8 pages</i>)		012612
Dominic W. Berry, Danial Motlagh, Giacomo Pantaleoni, and Nathan Wiebe		
Antisymmetry-breaking-coupling-enhanced sensing of quantum reservoirs (<i>10 pages</i>)		012613
Ji-Bing Yuan, Zhi-Min Tang, Ya-Ju Song, Shi-Qing Tang, Zhao-Hui Peng, Xin-Wen Wang, and Le-Man Kuang		
Experimental investigation of a multiphoton Heisenberg-limited interferometric scheme: The effect of imperfections (<i>16 pages</i>)		012614
Shakib Daryanoosh, Geoff J. Pryde, Howard M. Wiseman, and Sergei Slussarenko		
Boson sampling with ultracold atoms in a programmable optical lattice (<i>16 pages</i>)		012615
Carsten Robens, Iñigo Arrazola, Wolfgang Alt, Dieter Meschede, Lucas Lamata, Enrique Solano, and Andrea Alberti		
Compact and classically preprocessed data-loading quantum circuit as a quantum random access memory (<i>13 pages</i>)		012616
Bojia Duan and Chang-Yu Hsieh		
Quantum circuit model for discrete-time three-state quantum walks on Cayley graphs (<i>25 pages</i>)		012617
Rohit Sarma Sarkar and Bibhas Adhikari		
Spectral and temporal metrology with band-limited functions and finite-time measurements (<i>7 pages</i>)		012618
Łukasz Rudnicki and Tomasz Linowski		
Discrete-outcome sensor networks. II. Multiple detection events and grouping detectors (<i>9 pages</i>)		012619
Nada Ali and Mark Hillery		
Enhancing precision of atomic clocks by tuning disorder in accessories (<i>16 pages</i>)		012620
Aparajita Bhattacharyya, Ahana Ghoshal, and Ujjwal Sen		
Optical interferometer using two-mode squeezed light for enhanced chip-integrated quantum metrology (<i>14 pages</i>)		012621
Patrick Tritschler, Torsten Ohms, André Zimmermann, Fabian Zschocke, Thomas Strohm, and Peter Degenfeld-Schonburg		
Active quantum distillation (<i>10 pages</i>)		012622
Muchun Yang and D. L. Zhou		
Atomic and molecular structure and dynamics; high-precision experiments		
Highly charged ions of heavy actinides as sensitive probes for time variation of the fine-structure constant (<i>8 pages</i>)		012801
V. A. Dzuba and V. V. Flambaum		

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW A

THIRD SERIES, VOLUME 110, NUMBER 1

JULY 2024

Spectroscopic shifts in deuterated methanol induced by variation of m_e/m_p (11 pages)	012802
J. S. Vorotyntseva, S. A. Levshakov, and M. G. Kozlov	
Full electron description of antiproton collisions with neon and argon atoms in the keV energy range (5 pages)	012803
C. C. Jia, J. W. Gao, Y. Wu, J. G. Wang, and N. Sisourat	
Measurement of cesium $8\ ^2P_{1/2} \rightarrow 6\ ^2P_{1/2}$ electric quadrupole transition probabilities using fluorescence spectroscopy (9 pages)	012804
Jing Wang, Yuki Miyamoto, Hideaki Hara, Minoru Tanaka, Motomichi Tashiro, and Noboru Sasao	
Transport-property predictions for laser resonance chromatography on Rf^+ ($Z = 104$) (8 pages)	012805
Giorgio Visentin, Harry Ramanantoanina, Anastasia Borschevsky, Larry Viehland, Biswajit Jana, Aayush Arya, Stephan Fritzsche, and Mustapha Laatiaoui	
Neutralization of low-energy Ne^+ colliding with MoS_2 and metallic molybdenum: An experimental and theoretical study (13 pages)	012806
P. F. Buitrago, M. A. Romero, C. J. Bonin, Y. Irusta, C. González, R. Vidal, Evelina A. García, and F. Bonetto	
Isotope-shift factors with quantum electrodynamics effects for many-electron systems: A study of the nuclear charge radius of ^{26m}Al (14 pages)	012807
Leonid V. Skripnikov, Sergey D. Prosnjak, Aleksei V. Malyshev, Michail Athanasakis-Kaklamanakis, Alex Jose Brinson, Kei Minamisono, Fabian C. Pastrana Cruz, Jordan Ray Reilly, Brooke J. Rickey, and Ronald F. Garcia Ruiz	
Eighth-order Foldy-Wouthuysen transformation (8 pages)	012808
Ulrich D. Jentschura	
State-selective single- and double-electron-capture processes in slow Ar^{8+} -He collisions (12 pages)	012809
Md Abul Kalam Azad Siddiki, Guopeng Zhao, Ling Liu, and Deepankar Misra	
Theoretical calculations for isotope shifts of $^{7,9,10,11,12,14}\text{Be}^{2+}$ ions (11 pages)	012810
Xiao-Qiu Qi, Pei-Pei Zhang, Zong-Chao Yan, G. W. F. Drake, Ai-Xi Chen, Zhen-Xiang Zhong, and Ting-Yun Shi	
Light-induced processes in atomic-scale systems	
Strong-field Rydberg-state excitation of nitrogen dioxide pre-excited in the $\tilde{A}^2B_2$ state (7 pages)	013101
Yang Liu, Qi Chen, Tian Sun, Hang Lv, and Haifeng Xu	
Spin-squeezing-enhanced optical lattice clocks with 10^{-19} -level differential frequency stability at the averaging time of 1 s (13 pages)	013102
Deshui Yu, Jia Zhang, Tongyan Xia, Shougang Zhang, Tiantian Shi, and Jingbiao Chen	
Strong-field ionization of chiral molecules with bicircular laser fields: Sub-barrier dynamics, interference, and vortices (13 pages)	013103
S. Beaulieu, S. Larroque, D. Descamps, B. Fabre, S. Petit, R. Taïeb, B. Pons, and Y. Mairesse	
Time-dependent theory of reconstruction of attosecond harmonic beating by interference of multiphoton transitions (15 pages)	013104
Sebastián D. López, Matías L. Ocello, and Diego G. Arbó	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW A

THIRD SERIES, VOLUME 110, NUMBER 1

JULY 2024

Transverse asymmetry in molecular strong-field photoelectron holography induced by initial phase structure and Coulomb field (<i>10 pages</i>)	013105
Long Xu, Peng Qin, Min Gong, Wen She, Lingling Zheng, Xufei Sun, and Zhanghai Chen	
Two-electron interference in two-photon attosecond double ionization of neon (<i>12 pages</i>)	013106
Siddhartha Chattopadhyay, Carlos Marante, Barry I. Schneider, C. William McCurdy, and Luca Argenti	
Deterministic preparation of a dual-species two-ion crystal (<i>9 pages</i>)	013107
Maximilian J. Zawierucha, Till Rehmert, Jonas Keller, Tanja E. Mehlstäubler, Piet O. Schmidt, and Fabian Wolf	
Ultrafast nuclear dynamics in double-core-ionized water molecules (<i>9 pages</i>)	013108
Iyas Ismail, Ludger Inhester, Tatiana Marchenko, Florian Trinter, Abhishek Verma, Alberto De Fanis, Anthony Ferté, Daniel E. Rivas, Dawei Peng, Dimitris Koulentianos, Edwin Kukk, Francis Penent, Gilles Doumy, Giuseppe Sansone, John D. Bozek, Kai Li, Linda Young, Markus Ilchen, Maria Novella Piancastelli, Michael Meyer, Nicolas Velasquez, Oksana Travnikova, Rebecca Boll, Renaud Guillemin, Reinhard Dörner, Richard Taïeb, Simon Dold, Stéphane Carniato, Thomas M. Baumann, Tommaso Mazza, Yevheniy Ovcharenko, Ralph Püttner, and Marc Simon	
Coherent laser cooling with trains of ultrashort laser pulses (<i>8 pages</i>)	013109
J. Malamant, N. Gusakova, H. Sandaker, I. T. Sorokina, D. Comparat, and A. Camper	
Probing electronic motion and core potential by Coulomb-resaped terahertz radiation (<i>12 pages</i>)	013110
Ziyang Gan, Kaixuan Zhang, Yuan Gao, Ahai Chen, Yizhu Zhang, Tian-Min Yan, Thomas Pfeifer, and Yuhai Jiang	
Positron production in a laser plasma for measuring superhigh laser intensities (<i>9 pages</i>)	013111
I. A. Aleksandrov and A. A. Andreev	
Photoionization microscopy in the time domain: Classical atomic chronoscopy (<i>14 pages</i>)	013112
P. Kalaitzis, S. Danakas, K. Ferentinou, S. Cohen, and C. Bordas	
Effect of the atomic orbital on the retrieval of the ionization time on the basis of a phase-of-phase attoclock: F^- ions as an example (<i>8 pages</i>)	013113
Jian-Hong Chen, Haiyuan Yu, and Hongchuan Du	
Rydberg-state excitation and ionization of argon atoms subject to elliptically polarized strong laser fields (<i>7 pages</i>)	013114
ZhiQiang Wang, Wei Quan, XiaoLei Hao, Jing Chen, and XiaoJun Liu	
Purcell-modified Doppler cooling of quantum emitters inside optical cavities (<i>13 pages</i>)	013115
J. Lyne, N. S. Bassler, S. Park, G. Pupillo, and C. Genes	
Coherent control of multiphoton ionization of lithium atoms by a bichromatic laser field (<i>7 pages</i>)	013116
S. Mežinska, A. Dorn, T. Pfeifer, and K. Bartschat	
Universal scaling laws in nanoplasmonics of laser-ionized nanospheres (<i>12 pages</i>)	013117
V. Leshchenko, A. Camacho Garibay, B. Smith, P. Agostini, and L. F. DiMauro	
Exploring valence-electron dynamics of xenon through laser-induced electron diffraction (<i>7 pages</i>)	013118
Fang Liu, Slawomir Skruszewicz, Julian Späthe, Yinyu Zhang, Sebastian Hell, Bo Ying, Gerhard G. Paulus, Bálint Kiss, Krishna Murari, Malin Khalil, Eric Cormier, Li Guang Jiao, Stephan Fritzsche, and Matthias Kübel	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW A

THIRD SERIES, VOLUME 110, NUMBER 1

JULY 2024

Fock-space relativistic coupled-cluster calculations of clock-transition properties in Pb^{2+} (12 pages)	013119
Palki Gakkhar, Ravi Kumar, D. Angom, and B. K. Mani	
Probing Wigner time delays with photoelectron interferometry: Anisotropic long-range imprint of the short-range centrifugal potential (11 pages)	013120
Morgan Berkane, Camille L��v��que, Richard Ta��ieb, J��r��mie Caillat, and Jonathan Dubois	
Proposal for atom traps with low power by surface plasmon polaritons on the short waveguide (6 pages)	013121
Aiping Liu, Zhanfei Kang, Tong Wang, Pengfei Zhang, Xifeng Ren, Chang-Ling Zou, and Qin Wang	
Attosecond time delays in the body frame for photodetachment from molecular anions (13 pages)	013122
Thomas N. Rescigno, Cynthia S. Trevisan, Robert R. Lucchese, and C. William McCurdy	
Comparison of continuous and pulsed sideband cooling on an electric quadrupole transition (14 pages)	013123
Evan C. Reed, Lu Qi (��鲁), and Kenneth R. Brown	
Two-center interference in H_2^+ photoionization by electric dipole and quadrupole transitions (8 pages)	013124
Zhi Xu, Jintai Liang, Kunlong Liu, Marcelo F. Ciappina, Peixiang Lu, and Yueming Zhou	
 Spin noise spectroscopy of an alignment-based atomic magnetometer (16 pages)	013125
M. Ko��bia��, L. Elson, L. M. Rushton, A. Akbar, A. Meraki, K. Jensen, and J. Ko��ody��nski	
Ultracold systems and matter waves	
Bose-Einstein condensation in a canonical ensemble with fixed total momentum (14 pages)	013301
Andrey S. Plyashechnik, Alexey A. Sokolik, and Yurii E. Lozovik	
Controlling quantum vortex dynamics and vortex-antivortex annihilation in Bose-Einstein condensates with optical lattices (15 pages)	013302
Francesco Ancilotto and Luciano Reatto	
Ancilla-free measurement of out-of-time-ordered correlation functions: General measurement protocol and Rydberg atom implementation (8 pages)	013303
Michael Kastner, Philip Osterholz, and Christian Gross	
Interaction-induced dimensional crossover from fully three-dimensional to one-dimensional spaces (8 pages)	013304
Tao Yu, Xiaoran Ye, and Zhaoxin Liang	
Nonlinear Thouless pumping of solitons across an impurity (9 pages)	013305
Xuzhen Cao, Chunyu Jia, Ying Hu, and Zhaoxin Liang	
Stability and dynamics of atom-molecule superfluids near a narrow Feshbach resonance (13 pages)	013306
Zhiqiang Wang, Ke Wang, Zhendong Zhang, Shu Nagata, Cheng Chin, and K. Levin	
Quantum droplets in dipolar condensate mixtures with arbitrary dipole orientations (10 pages)	013308
Liang-Jun He, Bo Liu, and Yong-Chang Zhang	
Ultracold-molecule higher-order topological phases induced by long-range dipolar interactions in optical-tweezer lattices (10 pages)	013309
Jinzhu Jiang, Zhonghua Ji, Feng Mei, Jie Ma, Liantuan Xiao, and Suotang Jia	
Atom interferometer using spatially localized beam splitters (6 pages)	013310
Cl��ment Debavelaere, Cyrille Solaro, Sa��ida Guellati-K���lifa, and Pierre Clad��	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW A	THIRD SERIES, VOLUME 110, NUMBER 1	JULY 2024
Berezinskii-Kosterlitz-Thouless transitions in a ferromagnetic superfluid: Effects of axial magnetization (9 pages) Andrew P. C. Underwood, Andrew J. Groszek, Xiaoquan Yu, P. B. Blakie, and L. A. Williamson		013311
Detecting the Fermi surface nesting effect for the fermionic Dicke transition by trap-induced localization (10 pages) Shi Chen and Yu Chen		013312
Comprehensive peak-width analysis in matter-wave diffraction under grazing incidence conditions (7 pages) Lee Yeong Kim, Do Won Kang, Jong Chan Lee, Eunmi Chae, Wieland Schöllkopf, and Bum Suk Zhao		013313
Ultralong-range Cs-RbCs Rydberg molecules: Nonadiabaticity of dipole moments (9 pages) David Mellado-Alcedo, Alexander Guttridge, Simon L. Cornish, H. R. Sadeghpour, and Rosario González-Férez		013314
Simulation of time-crystal-like behavior for a few-boson chiral soliton model in a ring (10 pages) Patrik Öhberg and Ewan M. Wright		013315
Restoring the topological edge states in a finite optical superlattice (10 pages) A. Katsaris, I. A. Englezos, C. Weitenberg, F. K. Diakonov, and P. Schmelcher		013316
Evaluation of the systematic error induced by quadratic Zeeman effect using hyperfine-ground-state-exchange method in a long-baseline dual-species atom interferometer (9 pages) Yu-Hang Ji, Chuan He, Si-Tong Yan, Jun-Jie Jiang, Jia-Qi Lei, Lu Zhou, Lin Zhou, Xi Chen, Jin Wang, and Ming-Sheng Zhan		013317
Finite-frequency normal and superfluid drag effects in two-component atomic Bose-Einstein condensates (13 pages) Azat F. Aminov, Alexey A. Sokolik, and Yurii E. Lozovik		013318
Progress toward a zero-magnetic-field environment for ultracold-atom experiments (8 pages) C. Rogora, R. Cominotti, C. Baroni, D. Andreoni, G. Lamporesi, A. Zenesini, and G. Ferrari		013319
Fluctuation theorem anomaly in a point-vortex fluid (8 pages) Rama Sharma, Tapio P. Simula, and Andrew J. Groszek		013321
Measurement of the three-body-recombination coefficient of ultracold lithium and strontium atoms (6 pages) Bo-Yang Wang, Yi-Fan Wang, Zi-He An, Li-Yang Xie, Zhu-Xiong Ye, Yi Zhang, and Meng Khoon Tey		013322
Tunneling dynamics of ^{164}Dy supersolids and droplets (13 pages) S. I. Mistakidis, K. Mukherjee, S. M. Reimann, and H. R. Sadeghpour		013323
Crossover from Fermi to Bose polarons in one- and two-dimensional interacting Fermi gases (10 pages) Yue-Ran Shi, Ruijin Liu, and Wei Zhang		013324
Curved vortex surfaces in four-dimensional superfluids. I. Unequal-frequency double rotations (32 pages) Ben McCanna and Hannah M. Price		013325
Curved vortex surfaces in four-dimensional superfluids. II. Equal-frequency double rotations (17 pages) Ben McCanna and Hannah M. Price		013326
Quantum vortex stability in draining fluid flows (15 pages) Sam Patrick		013327
Impurity in a zero-temperature three-dimensional Fermi gas (6 pages) P. L. Krapivsky		013328

(Continued)

Photonics, nonlinear optics, and optomechanics

Bound states in the continuum in asymmetric crossbar junctions in one-dimensional waveguides (<i>11 pages</i>)	013501
Sofia Pinto, Rafael A. Molina, and Pedro A. Orellana	
Polarized γ -photon beams produced by collision of two ultrarelativistic electron beams (<i>10 pages</i>)	013502
Zhe Gao and Wei-Min Wang	
Dual-polarization topological rainbow concentrators based on glide-reflection symmetry (<i>9 pages</i>)	013503
Quanxin Luo, Bojian Shi, Rui Feng, Donghua Tang, Tongtong Zhu, Yongyin Cao, Fangkui Sun, and Weiqiang Ding	
Inversion of simulated and experimental light scattering data for characterization of two-dimensional randomly rough metal surfaces (<i>20 pages</i>)	013504
I. Simonsen, J. B. Kryvi, and A. A. Maradudin	
Isoentropic partially coherent optical fields that cannot be interconverted unitarily (<i>11 pages</i>)	013505
Mitchell Harling, Varun A. Kelkar, Kimani C. Toussaint, Jr., and Ayman F. Abouraddy	
Designing phase compensation for coherent control of frequency combs via high-order harmonic generation (<i>6 pages</i>)	013506
Chang-Tong Liang, Yu-Hang He, Ming-Gen Li, and Peng-Cheng Li	
Localization of optical vortices in nonlinear hexagonal multicore fibers (<i>7 pages</i>)	013507
Shamaem Khushhali, Raju Adhikary, Carino Ferrante, Cristian Antonelli, Antonio Mecozzi, Andrea Marini, and Samudra Roy	
Deep-learning-based recognition of composite vortex beams through long-distance and moderate-to-strong atmospheric turbulence (<i>8 pages</i>)	013508
Shen Cai, Zhihui Li, Zheqiang Zhong, and Bin Zhang	
Optical-gradient-force-induced nonlinearity in coupled microcavities (<i>10 pages</i>)	013509
Xu Guo, Jianming Mai, Haihua Fan, and Kok Wai Cheah	
Dynamic light-driven metasurface: Harnessing quasibound states in the continuum for laser-induced selective crystallization (<i>10 pages</i>)	013510
Marco Gandolfi, Maria Eugenia Serrano Flores, Jesse Frantz, Jason Myers, Robel Bekele, Jas Sanghera, Anthony Clabeau, Natalia M. Litchinitser, and Maria Antonietta Vincenti	
Controllable photonic spin Hall effect induced by an off-axis polarization singularity (<i>6 pages</i>)	013511
Xiang Zhang, Yanke Li, Yuan Zhang, Bingyan Wei, Sheng Liu, Yi Zhang, Peng Li, and Jianlin Zhao	
 Quantum optimal control of squeezing in cavity optomechanics (<i>13 pages</i>)	013512
Anton Halaski, Matthias G. Krauss, Daniel Basilewitsch, and Christiane P. Koch	
Precise <i>in situ</i> radius measurement of individual optically trapped microspheres using negative optical torque exerted by focused vortex beams (<i>11 pages</i>)	013513
Kainã Diniz, Tanja Schoger, Guilherme T. Moura, Arthur L. Fonseca, Diney S. Ether, Jr., Rafael S. Dutra, Gert-Ludwig Ingold, Nathan B. Viana, and Paulo A. Maia Neto	
Angular momentum gain by electrons under the action of intense structured light (<i>15 pages</i>)	013514
E. Dmitriev and Ph. Korneev	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW A

THIRD SERIES, VOLUME 110, NUMBER 1

JULY 2024

Periodically nonreciprocal transmission and entanglement in a non-Hermitian topological phase (<i>13 pages</i>)	013515
Zi-Hao Li, Li-Li Zheng, Gui-Lei Zhu, Ying Wu, and Xin-You Lü	
Magnetic Purcell enhancement by plasmon-induced magnetic resonance of the nanoparticle-on-mirror configuration (<i>10 pages</i>)	013516
Ze Li, Yafei Li, Qingzhang You, Meng Wang, Chengjun Zhu, Yuxing Yang, Hongmei Luan, and Peijie Wang	
Quantum optics	
All-optical generation of structured light beams via microwave-field-controlled electromagnetically induced transparency (<i>8 pages</i>)	013701
Onkar N. Verma and Niti Kant	
Reconstruction of the Wigner function of electron beams based on coherence measurements (<i>7 pages</i>)	013702
Shuhei Hatanaka and Jun Yamasaki	
Shock-wave generation and propagation in dissipative and nonlocal nonlinear Rydberg media (<i>14 pages</i>)	013703
Lu Qin, Chao Hang, Guoxiang Huang, and Weibin Li	
Stochastic correction to the Maxwell-Bloch equations via the positive P representation (<i>15 pages</i>)	013704
Johannes Stowasser, Felix Hitzelhammer, Michael A. Schreiber, Ulrich Hohenester, Gabriela Slavcheva, Michael Haider, and Christian Jirauschek	
Quantum walks and entanglement in cavity networks (<i>11 pages</i>)	013705
Christian Di Fidio, Laura Ares, and Jan Sperling	
Variational approach to light-matter interaction: Bridging quantum and semiclassical limits (<i>13 pages</i>)	013706
Yiying Yan, Zhiguo Lü, and JunYan Luo	
Quantum electrodynamics of lossy magnetodielectric samples in vacuum: Modified Langevin noise formalism (<i>20 pages</i>)	013707
A. Ciattoni	
Light-scattering properties beyond weak-field excitation in atomic ensembles (<i>8 pages</i>)	013708
Chung-Hsien Wang, Nai-Yu Tsai, Yi-Cheng Wang, and H. H. Jen	
Cavity spin twisting in coherent population trapping (<i>11 pages</i>)	013709
Xiangming Hu, Chengdeng Gou, and Jun Xu	
Entanglement formation between magnon and center-of-mass motion of a levitated particle in a magnomechanical system (<i>9 pages</i>)	013710
S. Bayati, A. Mahdifar, and M. Bagheri Harouni	
Robust generation of a magnonic cat state via a superconducting flux qubit (<i>9 pages</i>)	013711
Yu-Bo Hou, Xin-Lei Hei, Xue-Feng Pan, Ji-Kun Xie, Ya-Long Ren, Sheng-Li Ma, Fu-Li Li, and Peng-Bo Li	
Beyond the parametric approximation: Pump depletion, entanglement, and squeezing in macroscopic down-conversion (<i>21 pages</i>)	013712
Karthik Chinni and Nicolás Quesada	
Quantum fluctuations and unusual critical exponents in a quantum Rabi triangle (<i>8 pages</i>)	013713
Xiao Qin and Yu-Yu Zhang	

(Continued)

CONTENTS - Continued

PHYSICAL REVIEW A

THIRD SERIES, VOLUME 110, NUMBER 1

JULY 2024

Spatiotemporal effects in heralded state preparation (8 pages)	013714
Filippus S. Roux	
Supersensitive phase estimation by thermal light in a Kerr-nonlinear interferometric setup (11 pages)	013715
Nilakantha Meher, Eilon Poem, Tomáš Opatrný, Ofer Firstenberg, and Gershon Kurizki	

ERRATA

Erratum: Secure multiparty quantum computation with few qubits [Phys. Rev. A 102 , 022405 (2020)] (4 pages).....	019901(E)
Victoria Lipinska, J��r��my Ribeiro, and Stephanie Wehner	