Optimization of quantum interferometric metrological loss

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Citation Report

#	Article	IF	Citations
1	Parity detection in quantum optical metrology without number-resolving detectors. New Journal of Physics, 2010, 12, 113025.	1.2	67
2	Amplification of maximally-path-entangled number states. Physical Review A, 2010, 81, .	1.0	13
3	Enhanced Resolution of Lossy Interferometry by Coherent Amplification of Single Photons. Physical Review Letters, 2010, 105, 113602.	2.9	25
4	Fisher information in a quantum-critical environment. Physical Review A, 2010, 82, .	1.0	80
5	Quantum metrology with imperfect states and detectors. Physical Review A, 2011, 83, .	1.0	106
6	Discriminating quantum-optical beam-splitter channels with number-diagonal signal states: Applications to quantum reading and target detection. Physical Review A, 2011, 84, .	1.0	55
7	Enhanced resolution in lossy phase estimation by optical parametric amplification. , 2011, , .		0
8	Entanglement-enhanced measurement of a completely unknown optical phase. Nature Photonics, 2011, 5, 43-47.	15.6	198
9	Advances in quantum metrology. Nature Photonics, 2011, 5, 222-229.	15.6	2,567
10	Scaling laws for precision in quantum interferometry and the bifurcation landscape of the optimal state. Physical Review A, 2011, 83, .	1.0	152
11	Towards improved interferometric sensitivities in the presence of loss. New Journal of Physics, 2011, 13, 115003.	1.2	12
12	Sensitivity of entangled photon holes to loss and amplification. Physical Review A, 2011, 84, .	1.0	5
13	Quantum Fisher information of the Greenberger-Horne-Zeilinger state in decoherence channels. Physical Review A, 2011, 84, .	1.0	148
14	Quantum Radar. Synthesis Lectures on Quantum Computing, 2011, 3, 1-139.	0.1	91
15	Robust Quantum Enhanced Phase Estimation in a Multimode Interferometer. Physical Review Letters, 2012, 108, 130402.	2.9	26
16	Strategies for choosing path-entangled number states for optimal robust quantum-optical metrology in the presence of loss. Physical Review A, 2012, 86, .	1.0	32
17	Measuring a completely unknown phase with sub-shot-noise precision in the presence of loss. Physical Review A, 2012, 85, .	1.0	8
18	Phase Estimation via Quantum Interferometry for Noisy Detectors. Physical Review Letters, 2012, 108, 233602.	2.9	39

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19	Entangled and Sequential Quantum Protocols with Dephasing. Physical Review Letters, 2012, 108, 120402.	2.9	20
20	Intuitive reason for the usefulness of entanglement in quantum metrology. Physical Review A, 2013, 88, .	1.0	27
21	Quantum Fisher information of entangled coherent states in the presence of photon loss. Physical Review A, 2013, 88, .	1.0	165
22	Phase estimation at the quantum CramÃ©r-Rao bound via parity detection. Physical Review A, 2013, 87, .	1.0	72
23	Dynamics of the quantum Fisher information in a spin-boson model. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 355302.	0.7	11
24	Phase-matching condition for enhancement of phase sensitivity in quantum metrology. Physical Review A, 2013, 88, .	1.0	125
25	Super-resolving quantum radar: Coherent-state sources with homodyne detection suffice to beat the diffraction limit. Journal of Applied Physics, 2013, 114, 193102.	1.1	47
26	Quantum-enhanced phase estimation with an amplified Bell state. Physical Review A, 2013, 88, .	1.0	14
27	Quantum estimation of the Schwarzschild spacetime parameters of the Earth. Physical Review D, 2014, 90, .	1.6	53
28	Loss-resistant unambiguous phase measurement. Physical Review A, 2014, 90, .	1.0	10
29	Robust quantum metrological schemes based on protection of quantum Fisher information. Nature Communications, 2015, 6, 7282.	5.8	64
30	Quantum correlations in optical metrology: Heisenberg-limited phase estimation without mode entanglement. Physical Review A, 2015, 91, .	1.0	52
31	Electromagnetic shielding in quantum metrology. Physical Review A, 2015, 91, .	1.0	21
32	Magnetic Field Measurement with Heisenberg Limit Based on Solid Spin NOON State. Chinese Physics Letters, 2015, 32, 067601.	1.3	0
34	Quantum Sensors: Improved Optical Measurement via Specialized Quantum States. Journal of Sensors, 2016, 2016, 1-13.	0.6	9
35	Optimal detection strategy for super-resolving quantum lidar. Journal of Applied Physics, 2016, 119, .	1.1	6
36	Optimal channels for channelized quadratic estimators. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 1214.	0.8	1
37	Phase sensitivity of two nonlinear interferometers with inputting entangled coherent states. Chinese Physics B, 2016, 25, 040601.	0.7	11

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38	Heisenberg Limit Phase Sensitivity in the Presence of Decoherence Channels. Communications in Theoretical Physics, 2016, 65, 225-230.	1.1	0
39	Super-resolving quantum lidar: entangled coherent-state sources with binary-outcome photon counting measurement suffice to beat the shot-noise limit. Optics Express, 2016, 24, 5045.	1.7	16
40	Quantum-enhanced spectroscopy with entangled multiphoton states. Physical Review A, 2016, 93, .	1.0	16
41	Towards practical quantum metrology with photon counting. Npj Quantum Information, 2016, 2, .	2.8	61
42	Precision protection through indirect correlations. Annals of Physics, 2016, 367, 212-218.	1.0	4
43	Quantum noise on the coherent-transport protocol for clock synchronization. Journal of the Korean Physical Society, 2016, 68, 497-504.	0.3	0
44	The Effect of Vacuum Fluctuations on Quantum Metrology for a Uniformly Accelerated Atom. International Journal of Theoretical Physics, 2017, 56, 898-905.	0.5	0
45	Nearly optimal measurement schemes in a noisy Mach-Zehnder interferometer with coherent and squeezed vacuum. EPJ Quantum Technology, 2017, 4, .	2.9	37
46	The effects of symmetrical arrangement on quantum metrology. Scientific Reports, 2017, 7, 405.	1.6	1
47	Quantum sensing. Reviews of Modern Physics, 2017, 89, .	16.4	1,911
48	Improved resolution and sensitivity of angular rotation measurement using entangled coherent states. Optics Communications, 2017, 403, 92-96.	1.0	2
49	Prefect Protection of Quantum-Enhanced Metrology from Dephasing Noise. Communications in Theoretical Physics, 2017, 67, 383.	1.1	1
50	Precision enhancement in trapped ion rotation sensors. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 235501.	0.6	1
51	Effects of loss on the phase sensitivity with parity detection in an SU(1,1) interferometer. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 1080.	0.9	22
52	Enhancement of Sensitivity by Initial Phase Matching in SU(1,1) Interferometers. Communications in Theoretical Physics, 2019, 71, 037.	1.1	4
53	Thresholded Quantum LIDAR: Exploiting Photon-Number-Resolving Detection. Physical Review Letters, 2019, 123, 203601.	2.9	32
54	Quantum Plasmonic Sensors. Chemical Reviews, 2021, 121, 4743-4804.	23.0	70
55	Double-port measurements for robust quantum optical metrology. Physical Review A, 2021, 103, .	1.0	8

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56	Improving phase estimation using number-conserving operations. Physical Review A, 2021, 103, .	1.0	12
57	Definition of conditional Fisher information-estimating hidden parameter of probe state through environmental memory. European Physical Journal Plus, 2021, 136, 1.	1.2	2
58	Thresholded single-photon underwater imaging and detection. Optics Express, 2021, 29, 28124.	1.7	8
59	Improved phase sensitivity in a quantum optical interferometer based on multiphoton catalytic two-mode squeezed vacuum states. Physical Review A, 2021, 103, .	1.0	19
60	Influence of atmosphere attenuation on quantum interferometric radar. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 150301.	0.2	5
61	Super-Resolving Quantum Radar: Coherent-State Sources with Homodyne Detection Suffice to Beat the Diffraction Limit. , 2013, , .		0
62	Precision protection through cosmic string in quantum metrology. European Physical Journal C, 2020, 80, 1.	1.4	4
63	Noise limits on two-photon interferometric sensing. Physical Review A, 2021, 104, .	1.0	6
64	Two-photon-absorption measurements in the presence of single-photon losses. Physical Review A, 2022, 106, .	1.0	3
65	Optical forces on neutral atoms in the presence of fluctuating laser fields: Numerical analysis. Communications in Theoretical Physics, 0, , .	1.1	0
66	Thresholded quantum LIDAR in turbolent media. AVS Quantum Science, 2022, 4, .	1.8	1
67	Certification of photon Fock states using second-order nonlinearity. Physical Review A, 2022, 106, .	1.0	0
68	Quantum metrology in a lossless Machâ€“Zehnder interferometer using entangled photon inputs for a sequence of non-adaptive and adaptive measurements. AVS Quantum Science, 2023, 5, 014407.	1.8	0