

Colloquium: Non-Markovian dynamics in open q

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Non-Markovian Quantum Evolution: Time-Local Generators and Memory Kernels. Reports on Mathematical Physics, 2016, 77, 399-414.	0.4	1
2	Quantum Zeno-type effect and non-Markovianity in a three-level system. Scientific Reports, 2016, 6, 39061.	1.6	2
3	Implications of non-Markovian quantum dynamics for the Landauer bound. New Journal of Physics, 2016, 18, 123018.	1.2	68
4	Generalized Master Equations Leading to Completely Positive Dynamics. Physical Review Letters, 2016, 117, 230401.	2.9	57
5	Reduced dynamical maps in the presence of initial correlations. Scientific Reports, 2016, 6, 37328.	1.6	22
6	Spatio-orientational decoherence of nanoparticles. Physical Review A, 2016, 94, .	1.0	39
7	Thermodynamic power of non-Markovianity. Scientific Reports, 2016, 6, 27989.	1.6	58
8	Decoherence by spontaneous emission: A single-atom analog of superradiance. Physical Review A, 2016, 94, .	1.0	4
9	Detecting quantum speedup in closed and open systems. New Journal of Physics, 2016, 18, 073005.	1.2	12
10	Laser-induced dissociative ionization of H ₂ from the near-infrared to the mid-infrared regime. Physical Review A, 2016, 94, .	1.0	5
11	Discrete dynamics and non-Markovianity. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 125501.	0.6	8
12	Efficient superdense coding in the presence of non-Markovian noise. Europhysics Letters, 2016, 114, 10005.	0.7	46
13	Inequivalence of correlation-based measures of non-Markovianity. Physical Review A, 2016, 94, .	1.0	16
14	Discrimination of correlated and entangling quantum channels with selective process tomography. Physical Review A, 2016, 94, .	1.0	4
15	Effective Dynamics of Disordered Quantum Systems. Physical Review X, 2016, 6, .	2.8	33
16	Dynamical memory effects in correlated quantum channels. Physical Review A, 2016, 94, .	1.0	33
17	Time evolution of Rényi entropy under the Lindblad equation. Physical Review E, 2016, 94, 022106.	0.8	15
18	Generalized Pauli channels and a class of non-Markovian quantum evolution. Physical Review A, 2016, 94, .	1.0	35

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19	Sufficient conditions for a memory-kernel master equation. <i>Physical Review A</i> , 2016, 94, .	1.0	43
20	Quantum Noise from Reduced Dynamics. <i>Fluctuation and Noise Letters</i> , 2016, 15, 1640003.	1.0	4
21	Digital quantum simulation of many-body non-Markovian dynamics. <i>Physical Review A</i> , 2016, 94, .	1.0	35
22	Operational Characterization of Divisibility of Dynamical Maps. <i>Physical Review Letters</i> , 2016, 117, 050403.	2.9	30
23	Markovian semigroup from non-Markovian evolutions. <i>Physical Review A</i> , 2016, 93, .	1.0	27
24	Class of exact memory-kernel master equations. <i>Physical Review A</i> , 2016, 93, .	1.0	45
25	Non-Markovian dynamics in chiral quantum networks with spins and photons. <i>Physical Review A</i> , 2016, 93, .	1.0	91
26	Heat flux and information backflow in cold environments. <i>Physical Review A</i> , 2016, 94, .	1.0	21
27	Periodic thermodynamics of open quantum systems. <i>Physical Review E</i> , 2016, 93, 062134.	0.8	93
28	Collision model for non-Markovian quantum dynamics. <i>Physical Review A</i> , 2016, 94, .	1.0	86
29	Complete positivity, finite-temperature effects, and additivity of noise for time-local qubit dynamics. <i>Physical Review A</i> , 2016, 93, .	1.0	17
30	Decoherence induced by non-Markovian noise in a nonequilibrium environment. <i>Physical Review A</i> , 2016, 94, .	1.0	28
31	Initial system-bath state via the maximum-entropy principle. <i>Physical Review A</i> , 2016, 94, .	1.0	1
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33	On formation of long-living states. <i>Canadian Journal of Physics</i> , 2016, 94, 1253-1258.	0.4	2
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35	Criticality of environmental information obtainable by dynamically controlled quantum probes. <i>Physical Review A</i> , 2016, 94, .	1.0	12
36	Non-Markovian discrete qubit dynamics. <i>Science Bulletin</i> , 2016, 61, 1031-1036.	4.3	11

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38	Tensor power of dynamical maps and positive versus completely positive divisibility. Physical Review A, 2017, 95, .	1.0	25
39	Non-Markovian dynamics in the extended cluster spin-1/2 χ chain. Physical Review A, 2017, 95, .	1.0	13
40	Regular patterns in the information flow of local dephasing channels. Physical Review A, 2017, 95, .	1.0	5
41	Quantifying non-Markovianity due to driving and a finite-size environment in an open quantum system. Physical Review A, 2017, 95, .	1.0	12
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47	Advanced-Retarded Differential Equations in Quantum Photonic Systems. Scientific Reports, 2017, 7, 42933.	1.6	10
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49	Towards laser control of open quantum systems: memory effects. Molecular Physics, 2017, 115, 1944-1954.	0.8	6
50	Finite time measurements by Unruh-DeWitt detector and Landauer's principle. Annals of Physics, 2017, 381, 17-40.	1.0	2
51	Quantum non-Markovianity induced by Anderson localization. Scientific Reports, 2017, 7, 42729.	1.6	22
52	A new bio-inspired, population-level approach to the socioeconomic evolution of dynamic spectrum access services. International Journal of Modern Physics C, 2017, 28, 1750062.	0.8	1
53	Driving-induced amplification of non-Markovianity in open quantum systems evolution. Europhysics Letters, 2017, 118, 20005.	0.7	21
54	Dynamical matrix for arbitrary quadratic fermionic bath Hamiltonians and non-Markovian dynamics of one and two qubits in an Ising model environment. European Physical Journal D, 2017, 71, 1.	0.6	1

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56	Nonequilibrium transient dynamics of photon statistics. <i>Physical Review A</i> , 2017, 95, .	1.0	13
57	Non-Markovianity Hierarchy of Gaussian Processes and Quantum Amplification. <i>Physical Review Letters</i> , 2017, 118, 050401.	2.9	12
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59	Non-Markovianity Measure Based on Brukner's Zeilinger Invariant Information for Unital Quantum Dynamical Maps. <i>Communications in Theoretical Physics</i> , 2017, 67, 255.	1.1	4
60	Unitarity, feedback, interactions' dynamics emergent from repeated measurements. <i>New Journal of Physics</i> , 2017, 19, 013035.	1.2	29
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63	Entropy production and non-Markovian dynamical maps. <i>Scientific Reports</i> , 2017, 7, 12447.	1.6	41
64	Continuous-time quantum walks on spatially correlated noisy lattices. <i>Physical Review A</i> , 2017, 96, .	1.0	19
65	Stochastic Feshbach Projection for the Dynamics of Open Quantum Systems. <i>Physical Review Letters</i> , 2017, 119, 180401.	2.9	14
66	<i>Colloquium</i>: Quantum coherence as a resource. <i>Reviews of Modern Physics</i> , 2017, 89, .	16.4	1,108
67	Asymptotic Floquet states of non-Markovian systems. <i>Physical Review A</i> , 2017, 96, .	1.0	10
68	Markovian and non-Markovian dynamics of quantum emitters coupled to two-dimensional structured reservoirs. <i>Physical Review A</i> , 2017, 96, .	1.0	83
69	Stochastic unraveling of positive quantum dynamics. <i>Physical Review A</i> , 2017, 95, .	1.0	12
70	Non-Markovian dynamics of few emitters in a laser-driven cavity. <i>Physical Review A</i> , 2017, 96, .	1.0	3
71	Nonequilibrium quantum bounds to Landauer's principle: Tightness and effectiveness. <i>Physical Review A</i> , 2017, 96, .	1.0	7
72	Non-Markovianity and Coherence of a Moving Qubit inside a Leaky Cavity. <i>Open Systems and Information Dynamics</i> , 2017, 24, 1740006.	0.5	21

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74	Quantifying Quantum-Mechanical Processes. <i>Scientific Reports</i> , 2017, 7, 13588.	1.6	17
75	Probing nonclassicality under dissipation. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 435303.	0.7	2
76	Intensified antibunching via feedback-induced quantum interference. <i>Physical Review A</i> , 2017, 95, .	1.0	15
77	General Galilei Covariant Gaussian Maps. <i>Physical Review Letters</i> , 2017, 119, 100403.	2.9	4
78	Quantum speed limits: from Heisenberg's uncertainty principle to optimal quantum control. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 453001.	0.7	334
79	Markovian evolution of quantum coherence under symmetric dynamics. <i>Physical Review A</i> , 2017, 96, .	1.0	27
80	Divisibility of quantum dynamical maps and collision models. <i>Physical Review A</i> , 2017, 96, .	1.0	70
81	Engineered noisy environment for studying decoherence. <i>Physical Review A</i> , 2017, 96, .	1.0	5
82	Exact non-Markovian dynamics of qubits coupled to two interacting environments. <i>Physical Review A</i> , 2017, 96, .	1.0	22
83	Composite quantum collision models. <i>Physical Review A</i> , 2017, 96, .	1.0	79
84	Enabling quantum non-Markovian dynamics by injection of classical colored noise. <i>Physical Review A</i> , 2017, 95, .	1.0	23
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92	Noise-induced quantum state transfer in distant cavities. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 175502.	0.6	7
93	Non-Markovianity and memory of the initial state. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 335301.	0.7	3
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95	Quantum to classical transition induced by gravitational time dilation. <i>Physical Review A</i> , 2017, 96, .	1.0	8
96	Eternal non-Markovianity: from random unitary to Markov chain realisations. <i>Scientific Reports</i> , 2017, 7, 6379.	1.6	64
97	Dissipative Landau-Zener problem and thermally assisted Quantum Annealing. <i>Physical Review B</i> , 2017, 96, .	1.1	32
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104	Thermodynamic framework for information in nanoscale systems with memory. <i>Journal of Chemical Physics</i> , 2017, 147, 205101.	1.2	4
105	Application of quantum Darwinism to a structured environment. <i>Physical Review A</i> , 2017, 96, .	1.0	32
106	Decoherence Control of Nitrogen-Vacancy Centers. <i>Scientific Reports</i> , 2017, 7, 11937.	1.6	10
107	Efficient real-time path integrals for non-Markovian spin-boson models. <i>New Journal of Physics</i> , 2017, 19, 093009.	1.2	28
108	Computation of the asymptotic states of modulated open quantum systems with a numerically exact realization of the quantum trajectory method. <i>Physical Review E</i> , 2017, 96, 053313.	0.8	10

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110	Dynamics and thermodynamics of a central spin immersed in a spin bath. <i>Physical Review A</i> , 2017, 96, .	1.0	21
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112	Information Retrieval and Criticality in Parity-Time-Symmetric Systems. <i>Physical Review Letters</i> , 2017, 119, 190401.	2.9	151
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125	Non-Markovianity over Ensemble Averages in Quantum Complex Networks. <i>Open Systems and Information Dynamics</i> , 2017, 24, 1740018.	0.5	2
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129	Statistical speed of quantum states: Generalized quantum Fisher information and Schatten speed. <i>Physical Review A</i> , 2018, 97, .	1.0	34
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132	Non-Markovian quantum Brownian motion in one dimension in electric fields. <i>Physical Review A</i> , 2018, 97, .	1.0	16
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136	Non-additive dissipation in open quantum networks out of equilibrium. <i>New Journal of Physics</i> , 2018, 20, 033005.	1.2	83
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138	Theoretical Modeling of Singlet Fission. <i>Chemical Reviews</i> , 2018, 118, 7164-7207.	23.0	338
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146	Non-Markovianity-assisted high-fidelity Deutschâ€“Jozsa algorithm in diamond. Npj Quantum Information, 2018, 4, .	2.8	36
147	Continuous-variable quantum probes for structured environments. Physical Review A, 2018, 97, .	1.0	39
148	Operational Markov Condition for Quantum Processes. Physical Review Letters, 2018, 120, 040405.	2.9	157
150	Fundamental limits to frequency estimation: a comprehensive microscopic perspective. New Journal of Physics, 2018, 20, 053009.	1.2	43
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162	Memory effects in a quasiperiodic Fermi lattice. Physical Review A, 2018, 98, .	1.0	8
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191	Unconventional single-photon blockade in non-Markovian systems. Physical Review A, 2018, 98, .	1.0	37
192	Steepest entropy ascent for two-state systems with slowly varying Hamiltonians. Physical Review E, 2018, 97, 052113.	0.8	8
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197	Adding dynamical generators in quantum master equations. Physical Review A, 2018, 97, .	1.0	41
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