

# Thermalization and its mechanism for generic isolated

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Formation of Bose-Einstein Condensates. , 0, , 117-150.		4
2	Quenches, Relaxation, and Prethermalization in an Isolated Quantum System. , 0, , 151-167.		0
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780	Response to a local quench of a system near the many-body localization transition. <i>Physical Review B</i> , 2017, 95, .	1.1	2
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782	Macroscopic and microscopic thermal equilibrium. <i>Annalen Der Physik</i> , 2017, 529, 1600301.	0.9	22
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784	A one parameter fit for glassy dynamics as a quantum corollary of the liquid to solid transition. <i>Philosophical Magazine</i> , 2017, 97, 1509-1566.	0.7	10
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786	Logarithmic entanglement lightcone in many-body localized systems. <i>Physical Review B</i> , 2017, 95, .	1.1	23
787	Approximate light cone effects in a nonrelativistic quantum field theory after a local quench. <i>Physical Review B</i> , 2017, 95, .	1.1	24
788	Quantum violation of fluctuation-dissipation theorem. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2017, 2017, 024004.	0.9	11
789	Equilibration and order in quantum Floquet matter. <i>Nature Physics</i> , 2017, 13, 424-428.	6.5	190
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791	Dynamical many-body localization and delocalization in periodically driven closed quantum systems. <i>Annalen Der Physik</i> , 2017, 529, 1600333.	0.9	17
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795	Eigenstate phase transitions and the emergence of universal dynamics in highly excited states. <i>Annalen Der Physik</i> , 2017, 529, 1600302.	0.9	53
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818	Filling-dependent doublon dynamics in the one-dimensional Hubbard model. <i>Physical Review B</i> , 2017, 95, .	1.1	16
819	Correlations and diagonal entropy after quantum quenches in XXZ chains. <i>Physical Review B</i> , 2017, 95, .	1.1	46
820	Interconnections between equilibrium topology and dynamical quantum phase transitions in a linearly ramped Haldane model. <i>Physical Review B</i> , 2017, 95, .	1.1	40
821	Emergent topology and dynamical quantum phase transitions in two-dimensional closed quantum systems. <i>Physical Review B</i> , 2017, 96, .	1.1	50
822	Quantum Butterfly Effect in Weakly Interacting Diffusive Metals. <i>Physical Review X</i> , 2017, 7, .	2.8	106
823	Quantum dynamical response of ultracold few-boson ensembles in finite optical lattices to multiple interaction quenches. <i>Physical Review A</i> , 2017, 95, .	1.0	22
824	Hybrid model of separable, zero-range, few-body interactions in one-dimensional harmonic traps. <i>Physical Review A</i> , 2017, 96, .	1.0	4
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1528	Observing non-ergodicity due to kinetic constraints in tilted Fermi-Hubbard chains. <i>Nature Communications</i> , 2021, 12, 4490.	5.8	123
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1550	Flow equations for disordered Floquet systems. <i>SciPost Physics</i> , 2021, 11, .	1.5	7
1551	Dynamical Scaling of Surface Roughness and Entanglement Entropy in Disordered Fermion Models. <i>Physical Review Letters</i> , 2021, 127, 090601.	2.9	4
1552	QCD thermalization: <i>Ab initio</i> approaches and interdisciplinary connections. <i>Reviews of Modern Physics</i> , 2021, 93, .	16.4	89
1553	Polynomial filter diagonalization of large Floquet unitary operators. <i>SciPost Physics</i> , 2021, 11, .	1.5	4
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1567	Eigenstate thermalization and quantum chaos in the Jaynesâ€“Cummings Hubbard model. <i>Physica Scripta</i> , 2021, 96, 125709.	1.2	5
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1569	Quantum chaos and ensemble inequivalence of quantum long-range Ising chains. <i>Physical Review B</i> , 2021, 104, .	1.1	7
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1580	Information Scrambling over Bipartitions: Equilibration, Entropy Production, and Typicality. <i>Physical Review Letters</i> , 2021, 126, 030601.	2.9	35
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1582	Topological pumping of a 1D dipolar gas into strongly correlated prethermal states. <i>Science</i> , 2021, 371, 296-300.	6.0	40
1583	Ballistic propagation of a local impact in the one-dimensional XY model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021, 2021, 013103.	0.9	1
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1794	Observation of Thermalization and Information Scrambling in a Superconducting Quantum Processor. <i>Physical Review Letters</i> , 2022, 128, 160502.	2.9	26
1795	Many-body localization with quasiperiodic driving. <i>Physical Review B</i> , 2022, 105, .	1.1	15
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1797	Signatures of Quantum Chaos in an Out-of-Time-Order Tensor. <i>Physical Review Letters</i> , 2022, 128, 150601.	2.9	7
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1805	Dynamical quantum phase transitions in the one-dimensional extended Fermi-Hubbard model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2022, 2022, 043101.	0.9	2
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1807	Typicality of nonequilibrium quasi-steady currents. <i>Physical Review A</i> , 2022, 105, .	1.0	7
1808	Energy cat states induced by a parity-breaking excited-state quantum phase transition. <i>Physical Review A</i> , 2022, 105, .	1.0	8
1809	Bound on Eigenstate Thermalization from Transport. <i>Physical Review Letters</i> , 2022, 128, .	2.9	11
1810	Symmetry-Protected Infinite-Temperature Quantum Memory from Subsystem Codes. <i>PRX Quantum</i> , 2022, 3, .	3.5	7
1811	BBGKY Hierarchy and Generalized Hydrodynamics. <i>Physical Review Letters</i> , 2022, 128, .	2.9	7
1812	Random matrix theory for quantum and classical metastability in local Liouvillians. <i>Physical Review B</i> , 2022, 105, .	1.1	7
1813	Phase transitions of correlations in black hole geometries. <i>Physical Review D</i> , 2022, 105, .	1.6	1
1814	Scars from protected zero modes and beyond in $U(1)$ quantum link and quantum dimer models. <i>SciPost Physics</i> , 2022, 12, .	1.5	22
1815	Quantum information scrambling in quantum many-body scarred systems. <i>Physical Review Research</i> , 2022, 4, .	1.3	7
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1829	Initial state dependent dynamics across the many-body localization transition. Physical Review B, 2022, 105, .	1.1	1
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1844	Eigenstate Thermalization in Long-Range Interacting Systems. Physical Review Letters, 2022, 129, .	2.9	11
1845	Modeling sample-to-sample fluctuations of the gap ratio in finite disordered spin chains. Physical Review B, 2022, 106, .	1.1	2
1846	Thermodynamic symmetry resolved entanglement entropies in integrable systems. Journal of Statistical Mechanics: Theory and Experiment, 2022, 2022, 073102.	0.9	17
1847	Weak ergodicity breaking in Josephson-junction arrays. Physical Review B, 2022, 106, .	1.1	3
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1849	Scar states in deconfined $Z_2$ lattice gauge theories. Physical Review B, 2022, 106, .	1.1	18
1850	Extensive Multipartite Entanglement from $su(2)$ Quantum Many-Body Scars. Physical Review Letters, 2022, 129, .	2.9	20
1851	Classical algorithms for many-body quantum systems at finite energies. Physical Review B, 2022, 106, .	1.1	5
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1855	Quantifying information scrambling via classical shadow tomography on programmable quantum simulators. <i>Physical Review A</i> , 2022, 106, .	1.0	8
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1863	Dynamics of thermalization of two tunnel-coupled one-dimensional quasicondensates. <i>Physical Review A</i> , 2022, 106, .	1.0	4
1864	Ergodicity Breaking Transition in Zero Dimensions. <i>Physical Review Letters</i> , 2022, 129, .	2.9	10
1865	Entanglement perspective on the quantum approximate optimization algorithm. <i>Physical Review A</i> , 2022, 106, .	1.0	14
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1873	Phases and Dynamics of Ultracold Bosons in a Tilted Optical Lattice. Quantum Science and Technology, 2022, , 425-458.	1.5	0
1874	NMR Experimental Study of Out-of-Equilibrium Spin Models. Quantum Science and Technology, 2022, , 459-504.	1.5	0
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1877	Generalised Gibbs Ensemble for spherically constrained harmonic models. SciPost Physics, 2022, 13, .	1.5	2
1878	Dynamical phase transitions in the collisionless pre-thermal states of isolated quantum systems: theory and experiments. Reports on Progress in Physics, 2022, 85, 116001.	8.1	25
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1880	Higher spin JT gravity and a matrix model dual. Journal of High Energy Physics, 2022, 2022, .	1.6	6
1881	Photon emission from an excited string. Journal of High Energy Physics, 2022, 2022, .	1.6	8
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1883	Derivation of Euler equations from quantum and classical microscopic dynamics. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 424005.	0.7	1
1884	Emergent tracer dynamics in constrained quantum systems. Physical Review B, 2022, 106, .	1.1	13
1885	Tight-binding billiards. Physical Review E, 2022, 106, .	0.8	9
1886	Localization and Melting of Interfaces in the Two-Dimensional Quantum Ising Model. Physical Review Letters, 2022, 129, .	2.9	9
1887	Multimagnon quantum many-body scars from tensor operators. Physical Review Research, 2022, 4, .	1.3	11
1888	Peratic phase transition by bulk-to-surface response. Physical Review Research, 2022, 4, .	1.3	0

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1892	The Loschmidt spectral form factor. <i>Journal of High Energy Physics</i> , 2022, 2022, .	1.6	4
1893	Error-mitigated simulation of quantum many-body scars on quantum computers with pulse-level control. <i>Physical Review Research</i> , 2022, 4, .	1.3	17
1894	Preferred basis of states derived from the eigenstate thermalization hypothesis. <i>Physical Review A</i> , 2022, 106, .	1.0	1
1895	Hilbert space fragmentation in a 2D quantum spin system with subsystem symmetries. <i>SciPost Physics</i> , 2022, 13, .	1.5	14
1896	Magic-state resource theory for the ground state of the transverse-field Ising model. <i>Physical Review A</i> , 2022, 106, .	1.0	11
1897	One-particle entanglement for one-dimensional spinless fermions after an interaction quantum quench. <i>Physical Review B</i> , 2022, 106, .	1.1	2
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1900	Quantum many-body scars of spinless fermions with density-assisted hopping in higher dimensions. <i>Physical Review B</i> , 2022, 106, .	1.1	8
1901	Many-body Hilbert space scarring on a superconducting processor. <i>Nature Physics</i> , 2023, 19, 120-125.	6.5	26
1902	Eigenstate Thermalization Hypothesis and Free Probability. <i>Physical Review Letters</i> , 2022, 129, .	2.9	16
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1904	Condensation and thermalization of an easy-plane ferromagnet in a spinor Bose gas. <i>Nature Physics</i> , 2022, 18, 1459-1463.	6.5	2
1905	Exact spectral function of the Tonks-Girardeau gas at finite temperature. <i>Physical Review A</i> , 2022, 106, .	1.0	1
1906	Amplifying quantum correlations with quench dynamics in a quantum spin chain: Steady-states versus ground-states. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 608, 128314.	1.2	1

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1908	Constructing quantum many-body scar Hamiltonians from Floquet automata. <i>Physical Review B</i> , 2022, 106, .	1.1	7
1909	Typical perturbation theory: Conditions, accuracy, and comparison with a mesoscopic case. <i>Physical Review E</i> , 2022, 106, .	0.8	0
1910	Spatiotemporal dynamics of classical and quantum density profiles in low-dimensional spin systems. <i>Physical Review Research</i> , 2022, 4, .	1.3	2
1911	Canonical Density Matrices from Eigenstates of Mixed Systems. <i>Entropy</i> , 2022, 24, 1740.	1.1	5
1912	Quantum many-body scars from Einstein-Podolsky-Rosen states in bilayer systems. <i>Physical Review B</i> , 2022, 106, .	1.1	9
1913	Quantum transport of strongly interacting fermions in one dimension far out of equilibrium. <i>Physical Review A</i> , 2022, 106, .	1.0	0
1914	Probing quantum scars and weak ergodicity breaking through quantum complexity. <i>Physical Review B</i> , 2022, 106, .	1.1	25
1915	Mean-field theory of failed thermalizing avalanches. <i>Physical Review B</i> , 2022, 106, .	1.1	8
1916	Hilbert space fragmentation and interaction-induced localization in the extended Fermi-Hubbard model. <i>Physical Review B</i> , 2022, 106, .	1.1	6
1917	Dynamical quantum phase transitions in spin- $S$ quantum link models. <i>Physical Review B</i> , 2022, 106, .		
1918	Anti-Zeno purification of spin baths by quantum probe measurements. <i>Nature Communications</i> , 2022, 13, .	5.8	3
1919	Prethermalization in one-dimensional quantum many-body systems with confinement. <i>Nature Communications</i> , 2022, 13, .	5.8	13
1920	Critical properties of the Anderson transition on random graphs: Two-parameter scaling theory, Kosterlitz-Thouless type flow, and many-body localization. <i>Physical Review B</i> , 2022, 106, .	1.1	10
1921	Dipolar physics: a review of experiments with magnetic quantum gases. <i>Reports on Progress in Physics</i> , 2023, 86, 026401.	8.1	96
1922	Emergent Pauli Blocking in a Weakly Interacting Bose Gas. <i>Physical Review X</i> , 2022, 12, .	2.8	7
1923	Exact many-body scars based on pairs or multimers in a chain of spinless fermions. <i>Physical Review B</i> , 2022, 106, .	1.1	2
1924	Random Quantum Circuits. <i>Annual Review of Condensed Matter Physics</i> , 2023, 14, 335-379.	5.2	84

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1926	Many-body quantum chaos and space-time translational invariance. Nature Communications, 2022, 13, .	5.8	5
1927	Steady-state relation of a two-level system strongly coupled to a many-body quantum chaotic environment. Communications in Theoretical Physics, 0, , .	1.1	0
1928	Restoring Ergodicity in a Strongly Disordered Interacting Chain. Physical Review Letters, 2022, 129, .	2.9	6
1929	Bridging the gap between classical and quantum many-body information dynamics. Physical Review B, 2022, 106, .	1.1	9
1930	Quantum Many-Body Scars: A Quasiparticle Perspective. Annual Review of Condensed Matter Physics, 2023, 14, 443-469.	5.2	55
1931	Bridging quantum many-body scars and quantum integrability in Ising chains with transverse and longitudinal fields. Physical Review B, 2022, 106, .	1.1	4
1932	Normal and abnormal thermalization indicators in a one-dimensional low-density Jaynes-Cummings Hubbard model with and without dipole-dipole interaction. Physical Review E, 2022, 106, .	0.8	0
1933	Distinction between transport and Rényi entropy growth in kinetically constrained models. Physical Review B, 2022, 106, .	1.1	4
1934	Eigenstate thermalization and disappearance of quantum many-body scar states in weakly interacting fermion systems. Physical Review B, 2022, 106, .	1.1	1
1935	Chaos and Thermalization in the Spin-Boson Dicke Model. Entropy, 2023, 25, 8.	1.1	9
1936	Exploring Integrability-Chaos Transition with a Sequence of Independent Perturbations. Physical Review Letters, 2023, 130, .	2.9	2
1937	Theorem on extensive spectral degeneracy for systems with rigid higher symmetries in general dimensions. Physical Review B, 2023, 107, .	1.1	0
1938	Preparing random states and benchmarking with many-body quantum chaos. Nature, 2023, 613, 468-473.	13.7	25
1939	Chiral Spin-Chain Interfaces Exhibiting Event-Horizon Physics. Physical Review Letters, 2023, 130, .	2.9	2
1940	Exploring the Regime of Fragmentation in Strongly Tilted Fermi-Hubbard Chains. Physical Review Letters, 2023, 130, .	2.9	22
1941	Assessing quantum thermalization in physical and configuration spaces via many-body weak values. Physical Review A, 2023, 107, .	1.0	2
1942	Solvable model of deep thermalization with distinct design times. Quantum - the Open Journal for Quantum Science, 0, 6, 886.	0.0	9



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1963	Quantum coherence controls the nature of equilibration and thermalization in coupled chaotic systems. <i>Physical Review E</i> , 2023, 107, .	0.8	3
1964	Power-law decay of correlations after a global quench in the massive XXZ chain. <i>Physical Review B</i> , 2023, 107, .	1.1	3
1965	Localization challenges quantum chaos in the finite two-dimensional Anderson model. <i>Physical Review B</i> , 2023, 107, .	1.1	4
1966	Chaos in the three-site Bose-Hubbard model: Classical versus quantum. <i>Physical Review E</i> , 2023, 107, .	0.8	5
1967	Tracking locality in the time evolution of disordered systems. <i>Physical Review B</i> , 2023, 107, .	1.1	0
1968	Entanglement Barrier and its Symmetry Resolution: Theory and Experimental Observation. <i>PRX Quantum</i> , 2023, 4, .	3.5	23
1969	Quantum many-body scars in bipartite Rydberg arrays originating from hidden projector embedding. <i>Physical Review A</i> , 2023, 107, .	1.0	9
1970	Late-time critical behavior of local stringlike observables under quantum quenches. <i>Physical Review B</i> , 2023, 107, .	1.1	1
1971	Some speculations about local thermalization of nonequilibrium extended quantum systems. <i>Condensed Matter Physics</i> , 2023, 26, 13502.	0.3	1
1972	Quantum chaos and thermalization in the two-mode Dicke model. <i>Physica Scripta</i> , 2023, 98, 045105.	1.2	2
1973	Property of Many-Body Localization in Heisenberg Ising Chain Under Periodic Driving. <i>International Journal of Theoretical Physics</i> , 2023, 62, .	0.5	0
1974	Time-resolved single-particle spectrum of the one-dimensional extended Hubbard model after interaction quenches. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2023, 56, 085101.	0.6	0
1975	Entropy and temperature in finite isolated quantum systems. <i>Physical Review E</i> , 2023, 107, .	0.8	2
1976	Frequency beating and damping of breathing oscillations of a harmonically trapped one-dimensional quasicondensate. <i>Comptes Rendus Physique</i> , 2023, 24, 1-24.	0.3	2
1977	Absence of operator growth for average equal-time observables in charge-conserved sectors of the Sachdev-Ye-Kitaev model. <i>Journal of High Energy Physics</i> , 2023, 2023, .	1.6	1
1978	Generalized deep thermalization for free fermions. <i>Physical Review A</i> , 2023, 107, .	1.0	11

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1980	Thermalization in many-fermion quantum systems with one-plus random k-body interactions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2023, 2023, 033105.	0.9	1
1981	Lindbladian route towards thermalization of a Luttinger liquid. <i>Physical Review B</i> , 2023, 107, .	1.1	1
1982	Subsystem trace-distances of two random states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2023, 56, 175301.	0.7	1
1983	Local Hilbert space fragmentation and weak thermalization in Bose-Hubbard diamond necklaces. <i>Physical Review B</i> , 2023, 107, .	1.1	3
1984	From Dual Unitarity to Generic Quantum Operator Spreading. <i>Physical Review Letters</i> , 2023, 130, .	2.9	4
1985	Band relaxation triggered by modulational instability in topological photonic lattices. <i>Physica Scripta</i> , 2023, 98, 055513.	1.2	2
1986	Slow dynamics of a mobile impurity interacting with an Anderson insulator. <i>Physical Review B</i> , 2023, 107, .	1.1	3
1987	Entanglement asymmetry as a probe of symmetry breaking. <i>Nature Communications</i> , 2023, 14, .	5.8	18
1988	Entanglement complexity of the Rokhsar-Kivelson-sign wavefunctions. <i>Physical Review B</i> , 2023, 107, .	1.1	2
1989	Dynamical Fermionization in One-Dimensional Spinor Gases at Finite Temperature. <i>Physical Review Letters</i> , 2023, 130, .	2.9	1
1990	Scrambling in quantum cellular automata. <i>Physical Review B</i> , 2023, 107, .	1.1	5
2043	Loop Quantum Gravity and Quantum Information. , 2023, , 1-29.		0
2073	Noncommuting conserved charges in quantum thermodynamics and beyond. <i>Nature Reviews Physics</i> , 2023, 5, 689-698.	11.9	1
2083	The theory of generalised hydrodynamics for the one-dimensional Bose gas. <i>AAPPS Bulletin</i> , 2023, 33, .	2.7	0