

Prethermal Phases of Matter Protected by Time-Translation

Physical Review X

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Phase transitions and adiabatic preparation of a fractional Chern insulator in a boson cold-atom model. <i>Physical Review B</i> , 2017, 96, .	1.1	38
2	Quantum time crystal by decoherence: Proposal with an incommensurate charge density wave ring. <i>Physical Review B</i> , 2017, 96, .	1.1	16
3	Effects of local periodic driving on transport and generation of bound states. <i>Physical Review B</i> , 2017, 96, .	1.1	12
4	Topological Frequency Conversion in Strongly Driven Quantum Systems. <i>Physical Review X</i> , 2017, 7, .	2.8	103
5	Eigenstate phases with finite on-site non-Abelian symmetry. <i>Physical Review B</i> , 2017, 96, .	1.1	16
6	Dynamically enriched topological orders in driven two-dimensional systems. <i>Physical Review B</i> , 2017, 95, .	1.1	47
7	Many-body localization caused by temporal disorder. <i>Physical Review B</i> , 2017, 96, .	1.1	36
8	Defining time crystals via representation theory. <i>Physical Review B</i> , 2017, 96, .	1.1	42
9	Prethermal time crystals in a one-dimensional periodically driven Floquet system. <i>Physical Review B</i> , 2017, 96, .	1.1	44
10	Symmetry-protected topological order at nonzero temperature. <i>Physical Review A</i> , 2017, 96, .	1.0	31
11	Disorder-induced transitions in resonantly driven Floquet topological insulators. <i>Physical Review B</i> , 2017, 96, .	1.1	23
12	Radical chiral Floquet phases in a periodically driven Kitaev model and beyond. <i>Physical Review B</i> , 2017, 96, .	1.1	58
13	Topological invariants of Floquet systems: General formulation, special properties, and Floquet topological defects. <i>Physical Review B</i> , 2017, 96, .	1.1	123
14	Floquet Dynamics of Boundary-Driven Systems at Criticality. <i>Physical Review Letters</i> , 2017, 118, 260602.	2.9	25
15	Floquet topological phases with symmetry in all dimensions. <i>Physical Review B</i> , 2017, 95, .	1.1	86
16	Critical Time Crystals in Dipolar Systems. <i>Physical Review Letters</i> , 2017, 119, 010602.	2.9	107
17	Fate of a discrete time crystal in an open system. <i>Physical Review B</i> , 2017, 95, .	1.1	60
18	Prethermal Strong Zero Modes and Topological Qubits. <i>Physical Review X</i> , 2017, 7, .	2.8	60

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20	Setting Boundaries with Memory: Generation of Topological Boundary States in Floquet-Induced Synthetic Crystals. <i>Physical Review Letters</i> , 2018, 120, 106402.	2.9	17
21	Topological energy conversion through the bulk or the boundary of driven systems. <i>Physical Review B</i> , 2018, 97, .	1.1	22
22	Logarithmically Slow Relaxation in Quasiperiodically Driven Random Spin Chains. <i>Physical Review Letters</i> , 2018, 120, 070602.	2.9	55
23	Symmetry-breaking dynamics of the finite-size Lipkin-Meshkov-Glick model near ground state. <i>Physical Review A</i> , 2018, 97, .	1.0	28
24	Absence of thermalization in finite isolated interacting Floquet systems. <i>Physical Review B</i> , 2018, 97, .	1.1	35
25	Periodic and quasiperiodic revivals in periodically driven interacting quantum systems. <i>Physical Review B</i> , 2018, 97, .	1.1	24
26	Discrete Time-Crystalline Order in Cavity and Circuit QED Systems. <i>Physical Review Letters</i> , 2018, 120, 040404.	2.9	150
27	P31 NMR study of discrete time-crystalline signatures in an ordered crystal of ammonium dihydrogen phosphate. <i>Physical Review B</i> , 2018, 97, .	1.1	56
28	Temporal Order in Periodically Driven Spins in Star-Shaped Clusters. <i>Physical Review Letters</i> , 2018, 120, 180602.	2.9	119
29	Observation of Discrete-Time-Crystal Signatures in an Ordered Dipolar Many-Body System. <i>Physical Review Letters</i> , 2018, 120, 180603.	2.9	189
30	Clean Floquet Time Crystals: Models and Realizations in Cold Atoms. <i>Physical Review Letters</i> , 2018, 120, 110603.	2.9	86
31	Shattered time: can a dissipative time crystal survive many-body correlations?. <i>New Journal of Physics</i> , 2018, 20, 123003.	1.2	61
32	Strong-disorder renormalization group for periodically driven systems. <i>Physical Review B</i> , 2018, 98, .	1.1	10
33	Minimalist approach to the classification of symmetry protected topological phases. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 445001.	0.7	36
34	Observation of a Space-Time Crystal in a Superfluid Quantum Gas. <i>Physical Review Letters</i> , 2018, 121, 185301.	2.9	104
35	Charge density wave and charge pump of interacting fermions in circularly shaken hexagonal optical lattices. <i>Physical Review A</i> , 2018, 98, .	1.0	15
36	Stability and pre-thermalization in chains of classical kicked rotors. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 465001.	0.7	25

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37	Time crystals in periodically driven systems. <i>Physics Today</i> , 2018, 71, 40-47.	0.3	54
38	Tracking the quantized information transfer at the edge of a chiral Floquet phase. <i>Physical Review B</i> , 2018, 98, .	1.1	13
39	Universal spectral correlations in the chaotic wave function and the development of quantum chaos. <i>Physical Review B</i> , 2018, 98, .	1.1	34
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42	Suppression of Heating in Quantum Spin Clusters under Periodic Driving as a Dynamic Localization Effect. <i>Physical Review Letters</i> , 2018, 121, 050602.	2.9	15
43	Boundary Time Crystals. <i>Physical Review Letters</i> , 2018, 121, 035301.	2.9	162
44	Many-Body Dynamics and Gap Opening in Interacting Periodically Driven Systems. <i>Physical Review Letters</i> , 2018, 121, 036801.	2.9	13
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47	Learning phase transitions from dynamics. <i>Physical Review B</i> , 2018, 98, .	1.1	43
48	Spin Polarization through Floquet Resonances in a Driven Central Spin Model. <i>Physical Review Letters</i> , 2018, 121, 080401.	2.9	23
49	String order parameters for one-dimensional Floquet symmetry protected topological phases. <i>Physical Review B</i> , 2018, 97, .	1.1	10
50	Many-body localization, symmetry and topology. <i>Reports on Progress in Physics</i> , 2018, 81, 082501.	8.1	69
51	Infinite family of three-dimensional Floquet topological paramagnets. <i>Physical Review B</i> , 2018, 97, .	1.1	12
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54	High-frequency expansion for Floquet prethermal phases with emergent symmetries: Application to time crystals and Floquet engineering. <i>Physical Review B</i> , 2019, 100, .	1.1	12

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56	Systematic Construction of Scarred Many-Body Dynamics in 1D Lattice Models. Physical Review Letters, 2019, 123, 030601.	2.9	77
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58	Period- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle n \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Discrete Time Crystals and Quasicrystals with Ultracold Bosons. Physical Review Letters, 2019, 123, 150601.	2.9	51
59	Integrable Many-Body Quantum Floquet-Thouless Pumps. Physical Review Letters, 2019, 123, 170603.	2.9	34
60	Emergent Prethermalization Signatures in Out-of-Time Ordered Correlations. Physical Review Letters, 2019, 123, 090605.	2.9	48
61	Dicke time crystals in driven-dissipative quantum many-body systems. New Journal of Physics, 2019, 21, 073028.	1.2	90
62	Classical Many-Body Time Crystals. Physical Review Letters, 2019, 123, 124301.	2.9	46
63	Dynamics of a space-time crystal in an atomic Bose-Einstein condensate. Physical Review A, 2019, 99, .	1.0	19
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65	Probing Quantum Thermalization of a Disordered Dipolar Spin Ensemble with Discrete Time-Crystalline Order. Physical Review Letters, 2019, 122, 043603.	2.9	33
66	Flow Equation Approach to Periodically Driven Quantum Systems. Physical Review X, 2019, 9, .	2.8	44
67	Emergent limit cycles and time crystal dynamics in an atom-cavity system. Physical Review A, 2019, 99, .	1.0	47
68	Almost strong ($\langle \text{mml:math} \rangle$ Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 227 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"	1.1	18
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70	Quasilocalized excitations induced by long-range interactions in translationally invariant quantum spin chains. Physical Review B, 2019, 99, .	1.1	48
71	Floquet time crystals in clock models. Physical Review B, 2019, 99, .	1.1	69
72	Floquet Majorana zero and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mi} \rangle \tilde{\Gamma} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ modes in planar Josephson junctions. Physical Review B, 2019, 99, .	1.1	24

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74	Interacting invariants for Floquet phases of fermions in two dimensions. Physical Review B, 2019, 99, .	1.1	45
75	Floquet engineering of topological phases protected by emergent symmetries under resonant drives. Physical Review A, 2019, 100, .	1.0	0
76	Quantum many-body scars from magnon condensation. Physical Review B, 2019, 100, .	1.1	96
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84	Discrete Time Crystals in the Absence of Manifest Symmetries or Disorder in Open Quantum Systems. Physical Review Letters, 2019, 122, 015701.	2.9	90
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87	Time Crystals Protected by Floquet Dynamical Symmetry in Hubbard Models. Physical Review Letters, 2020, 125, 060601.	2.9	30
88	High-fidelity and long-distance entangled-state transfer with Floquet topological edge modes. Physical Review A, 2020, 102, .	1.0	14
89	Emergent Spatial Structure and Entanglement Localization in Floquet Conformal Field Theory. Physical Review X, 2020, 10, .	2.8	24
90	Dynamical Enhancement of Symmetries in Many-Body Systems. Physical Review Letters, 2020, 125, 080602.	2.9	8

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92	Classification of S -deformed Floquet conformal field theories. Physical Review B, 2020, 102, .	1.1	18
93	Floquet dynamical quantum phase transition in the extended XY model: Nonadiabatic to adiabatic topological transition. Physical Review B, 2020, 102, .	1.1	45
94	Long-Lived Interacting Phases of Matter Protected by Multiple Time-Translation Symmetries in Quasiperiodically Driven Systems. Physical Review X, 2020, 10, .	2.8	56
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101	Long-Range Prethermal Phases of Nonequilibrium Matter. Physical Review X, 2020, 10, .	2.8	61
102	Effective Floquet Hamiltonian in the low-frequency regime. Physical Review B, 2020, 101, .	1.1	33
103	Response of a quantum disordered spin system to a local periodic drive. Physical Review B, 2020, 101, .	1.1	3
104	Scaling of Loschmidt echo in a boundary-driven critical Z_3 Potts model. Physical Review B, 2020, 101, .	1.1	1
105	Disentangling supercohomology symmetry-protected topological phases in three spatial dimensions. Physical Review Research, 2021, 3, .	1.3	9
106	Random Multipolar Driving: Tunably Slow Heating through Spectral Engineering. Physical Review Letters, 2021, 126, 040601.	2.9	30
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108	Effective response theory for Floquet topological systems. Physical Review Research, 2021, 3, .	1.3	11

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110	Floquet conformal field theories with generally deformed Hamiltonians. <i>SciPost Physics</i> , 2021, 10, .	1.5	15
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112	Controlling quantum many-body dynamics in driven Rydberg atom arrays. <i>Science</i> , 2021, 371, 1355-1359.	6.0	186
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115	Programmable quantum simulations of spin systems with trapped ions. <i>Reviews of Modern Physics</i> , 2021, 93, .	16.4	316
116	Quantum quench in a driven Ising chain. <i>Physical Review B</i> , 2021, 103, .	1.1	2
117	Critical theory for the breakdown of photon blockade. <i>Physical Review Research</i> , 2021, 3, .	1.3	10
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119	Periodically, quasiperiodically, and randomly driven conformal field theories. <i>Physical Review Research</i> , 2021, 3, .	1.3	20
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129	Discrete Time-Crystalline Order Enabled by Quantum Many-Body Scars: Entanglement Steering via Periodic Driving. <i>Physical Review Letters</i> , 2021, 127, 090602.	2.9	28
130	Dynamics of fluctuation correlation in a periodically driven classical system. <i>Physical Review B</i> , 2021, 104, .	1.1	8
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136	Many-Body Physics in the NISQ Era: Quantum Programming a Discrete Time Crystal. <i>PRX Quantum</i> , 2021, 2, .	3.5	41
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142	From a continuous to a discrete time crystal in a dissipative atom-cavity system. <i>New Journal of Physics</i> , 2020, 22, 085002.	1.2	39
143	Coherent dynamics in frustrated coupled parametric oscillators. <i>New Journal of Physics</i> , 2020, 22, 085005.	1.2	11
144	On the long-term stability of space-time crystals. <i>New Journal of Physics</i> , 2020, 22, 105001.	1.2	7

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146	Homogeneous Floquet time crystal from weak ergodicity breaking. <i>Physical Review B</i> , 2020, 102, .	1.1	9
147	Exponentially slow heating in short and long-range interacting Floquet systems. <i>Physical Review Research</i> , 2019, 1, .	1.3	40
148	Homogeneous Floquet time crystal protected by gauge invariance. <i>Physical Review Research</i> , 2020, 2, .	1.3	36
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160	Autonomous topological time crystals and knotty molecular motors. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 015702.	0.7	0
161	Time-crystalline phases and period-doubling oscillations in one-dimensional Floquet topological insulators. <i>Physical Review Research</i> , 2020, 2, .	1.3	6
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164	Quantum repetition codes as building blocks of large-period discrete time crystals. <i>Physical Review B</i> , 2021, 104, .	1.1	6
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169	Driven Hubbard model on a triangular lattice: Tunable Heisenberg antiferromagnet with a chiral three-spin term. <i>Physical Review B</i> , 2022, 105, .	1.1	5
170	Absence of Heating in a Uniform Fermi Gas Created by Periodic Driving. <i>Physical Review X</i> , 2022, 12, .	2.8	8
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173	Energy diffusion and prethermalization in chaotic billiards under rapid periodic driving. <i>Physical Review E</i> , 2021, 104, 064210.	0.8	2
174	Dynamics of the order parameter statistics in the long range Ising model. <i>SciPost Physics</i> , 2022, 12, .	1.5	2
175	Dissipative time crystal in an atom-cavity system: Influence of trap and competing interactions. <i>Physical Review A</i> , 2022, 105, .	1.0	13
176	Simulation of Quantum Many-Body Dynamics with Tensor Processing Units: Floquet Prethermalization. <i>PRX Quantum</i> , 2022, 3, .	3.5	13
177	Orbital magnetization of Floquet topological systems. <i>Physical Review B</i> , 2022, 105, .	1.1	7
178	Inverse Faraday effect in Mott insulators. <i>Physical Review B</i> , 2022, 105, .	1.1	10
179	Floquet topological systems with flat bands: Edge modes, Berry curvature, and orbital magnetization. <i>Physical Review B</i> , 2022, 105, .	1.1	3
180	Proposed Fermi-surface reservoir engineering and application to realizing unconventional Fermi superfluids in a driven-dissipative nonequilibrium Fermi gas. <i>Physical Review A</i> , 2022, 106, .	1.0	4

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182	Discrete Time Crystals Enforced by Floquet-Bloch Scars. <i>Physical Review Letters</i> , 2022, 129, .	2.9	6
183	Tuning between Continuous Time Crystals and Many-Body Scars in Long-Range $\langle X \rangle \langle Y \rangle \langle Z \rangle$ Spin Chains. <i>Physical Review Letters</i> , 2022, 129, .	2.9	1
184	Discrete Time-Crystalline Response Stabilized by Domain-Wall Confinement. <i>Physical Review X</i> , 2022, 12, .	2.8	13
185	Clean two-dimensional Floquet time crystal. <i>Physical Review B</i> , 2022, 106, .	1.1	3
186	Periodically, Quasi-periodically, and Randomly Driven Conformal Field Theories (II): Furstenberg's Theorem and Exceptions to Heating Phases. <i>SciPost Physics</i> , 2022, 13, .	1.5	7
187	Dynamical l-bits and persistent oscillations in Stark many-body localization. <i>Physical Review B</i> , 2022, 106, .	1.1	10
188	Prethermal nematic order and staircase heating in a driven frustrated Ising magnet with dipolar interactions. <i>Physical Review B</i> , 2022, 106, .	1.1	6
189	Adiabatic and irreversible classical discrete time crystals. <i>SciPost Physics</i> , 2022, 13, .	1.5	0
190	Low-energy prethermal phase and crossover to thermalization in nonlinear kicked rotors. <i>Physical Review A</i> , 2022, 106, .	1.0	4
191	Effect of quasiperiodic and random noise on many-body dynamical decoupling protocols. <i>Physical Review B</i> , 2022, 106, .	1.1	2
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193	Metastable discrete time-crystal resonances in a dissipative central spin system. <i>Physical Review B</i> , 2022, 106, .	1.1	7
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