MÃ¡rton Kormos

List of Publications by Year
in descending order

46 papers	1,910 citations	257450 24 h-index	243625 44 g-index
46 all docs	46 docs citations	46 times ranked	743 citing authors

#	Article	IF	Citations
1	Correlations after Quantum Quenches in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>X</mml:mi><mml:mi>X</mml:mi><mml:mi>Z</mml:mi></mml:mrow></mml:math>Spin Chain: Failure of the Generalized Gibbs Ensemble. Physical Review Letters, 2014, 113, 117203.	7.8	245
2	Real-time confinement following a quantum quench to a non-integrable model. Nature Physics, 2017, 13, 246-249.	16.7	205
3	Analytic results for a quantum quench from free to hard-core one-dimensional bosons. Physical Review A, 2014, 89, .	2.5	127
4	Interaction quenches in the one-dimensional Bose gas. Physical Review B, 2013, 88, .	3.2	105
5	Relativistic Boseâ€“Einstein condensates: a new system for analogue models of gravity. New Journal of Physics, 2010, 12, 095012.	2.9	77
6	Expectation Values in the Lieb-Liniger Bose Gas. Physical Review Letters, 2009, 103, 210404.	7.8	76
7	Quantum quenches from excited states in the Ising chain. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 175002.	2.1	74
8	One-dimensional Lieb-Liniger Bose gas as nonrelativistic limit of the sinh-Gordon model. Physical Review A, 2010, 81, .	2.5	72
9	Hamiltonian truncation approach to quenches in the Ising field theory. Nuclear Physics B, 2016, 911, 805-845.	2.5	59
10	Inhomogeneous quenches in the transverse field Ising chain: scaling and front dynamics. SciPost Physics, 2017, 3, .	4.9	58
11	Stationary entanglement entropies following an interaction quench in 1D Bose gas. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P01009.	2.3	56
12	Exact Three-Body Local Correlations for Excited States of the 1D Bose Gas. Physical Review Letters, 2011, 107, 230405.	7.8	55
13	Hybrid Semiclassical Theory of Quantum Quenches in One-Dimensional Systems. Physical Review Letters, 2017, 119, 100603.	7.8	47
14	Interaction quench in a trapped 1D Bose gas. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P11016.	2.3	41
15	Local correlations in the super-Tonks-Girardeau gas. Physical Review A, 2011, 83, .	2.5	40
16	Stationary entropies after a quench from excited states in the Ising chain. Europhysics Letters, 2014, 107, 40002.	2.0	38
17	Quantum quenches in the sine-Gordon model: A semiclassical approach. Physical Review E, 2016, 93, 062101.	2.1	37
18	Transport in the sine-Gordon field theory: From generalized hydrodynamics to semiclassics. Physical Review B, 2019, 100, .	3.2	36

#	ARTICLE	IF	CITATIONS
19	Quench dynamics of the Ising field theory in a magnetic field. SciPost Physics, 2018, 5, .	4.9	33
20	Nonequilibrium time evolution and rephasing in the quantum sine-Gordon model. Physical Review A, 2019, 100, .	2.5	31
21	On form factors in nested Bethe Ansatz systems. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 465007.	2.1	28
22	One-point functions in massive integrable QFT with boundaries. Journal of High Energy Physics, 2010, 2010, 1.	4.7	27
23	False vacuum decay in quantum spin chains. Physical Review B, 2021, 104, .	3.2	26
24	From the sine-Gordon field theory to the Kardar-Parisi-Zhang growth equation. Europhysics Letters, 2014, 107, 10011.	2.0	25
25	Temperature driven quenches in the Ising model: appearance of negative RÃ©nyi mutual information. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 264005.	2.1	24
26	Quantum quench in a harmonically trapped one-dimensional Bose gas. Physical Review A, 2018, 97, .	2.5	24
27	Finite-Temperature Spin Dynamics in a Perturbed Quantum Critical Ising Chain with an<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>E</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:math>Symmetry. Physical Review Letters, 2021, 127, 245301.	7.8	22
28	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>E</mml:mi></mml:mrow><mml:mrow><mml:mn>8</mml:mn></mml:mrow></mml Spectra of Quasi-One-Dimensional Antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>BaCo</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></ mathvariant="normal">V</mml:mi></mml:mrow. Physical Review Letters, 2021, 127, 077201.	7.8	22
29	Overlap singularity and time evolution in integrable quantum field theory. Journal of High Energy Physics, 2018, 2018, 1.	4.7	19
30	Bethe ansatz matrix elements as non-relativistic limits of form factors of quantum field theory. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P05014.	2.3	18
31	Dynamical manifestation of the Gibbs paradox after a quantum quench. Physical Review A, 2018, 98, .	2.5	18
32	Boundary form factors in finite volume. Nuclear Physics B, 2008, 803, 277-298.	2.5	17
33	Kibbleâ€“Zurek mechanism in the Ising Field Theory. SciPost Physics, 2020, 9, .	4.9	17
34	Defect flows in minimal models. Journal of High Energy Physics, 2009, 2009, 057-057.	4.7	15
35	Perturbative post-quench overlaps in quantum field theory. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
36	Semiclassical theory of front propagation and front equilibration following an inhomogeneous quantum quench. Physical Review E, 2018, 98, .	2.1	12

#	ARTICLE	IF	CITATIONS
37	Confinement in the spectrum of a Heisenbergâ€“Ising spin ladder. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 093106.	2.3	12
38	Inhomogeneous quantum quenches in the sine-Gordon theory. SciPost Physics, 2022, 12, .	4.9	12
39	Some semi-classical issues in the boundary sine-Gordon model. Journal of Physics A, 2002, 35, 5471-5488.	1.6	8
40	Boundary renormalisation group flows of unitary superconformal minimal models. Nuclear Physics B, 2006, 744, 358-379.	2.5	8
41	Cascade of singularities in the spin dynamics of a perturbed quantum critical Ising chain. Physical Review B, 2021, 103, .	3.2	8
42	Boundary renormalisation group flows of the supersymmetric Leeâ€“Yang model and its extensions. Nuclear Physics B, 2007, 772, 227-248.	2.5	5
43	Spin fluctuations after quantum quenches in the S=1 Haldane chain: Numerical validation of the semi-semiclassical theory. Physical Review B, 2019, 100, .	3.2	5
44	Quenches and confinement in a Heisenbergâ€“Ising spin ladder. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 124003.	2.1	5
45	Theory of quantum work in metallic grains. Physical Review Research, 2020, 2, .	3.6	4
46	Simulating Lindbladian evolution with non-Abelian symmetries: Ballistic front propagation in the SU(2) Hubbard model with a localized loss. Physical Review B, 2022, 105, .	3.2	3