

JÃ©rÃ©me Dubail

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,740
citations

304743

22
h-index

454955

30
g-index

30
all docs

30
docs citations

30
times ranked

625
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized Hydrodynamics on an Atom Chip. Physical Review Letters, 2019, 122, 090601.	7.8	160
2	Conformal field theory for inhomogeneous one-dimensional quantum systems: the example of non-interacting Fermi gases. SciPost Physics, 2017, 2, .	4.9	150
3	Large-Scale Description of Interacting One-Dimensional Bose Gases: Generalized Hydrodynamics Supersedes Conventional Hydrodynamics. Physical Review Letters, 2017, 119, 195301.	7.8	121
4	Local quantum quenches in critical one-dimensional systems: entanglement, the Loschmidt echo, and light-cone effects. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P08019.	2.3	96
5	Inhomogeneous field theory inside the arctic circle. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 053108.	2.3	94
6	Inhomogeneous quenches in a free fermionic chain: Exact results. Europhysics Letters, 2016, 115, 40011.	2.0	93
7	Quantum Generalized Hydrodynamics. Physical Review Letters, 2020, 124, 140603.	7.8	89
8	Entanglement scaling of operators: a conformal field theory approach, with a glimpse of simulability of long-time dynamics in $1+1$ d. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 234001.	2.1	86
9	Generalized hydrodynamics in strongly interacting 1D Bose gases. Science, 2021, 373, 1129-1133.	12.6	80
10	Operator Entanglement in Interacting Integrable Quantum Systems: The Case of the Rule 54 Chain. Physical Review Letters, 2019, 122, 250603.	7.8	78
11	Hydrodynamics of the interacting Bose gas in the Quantum Newton Cradle setup. SciPost Physics, 2019, 6, .	4.9	70
12	Emergence of curved light-cones in a class of inhomogeneous Luttinger liquids. SciPost Physics, 2017, 3, .	4.9	63
13	Dark state semilocalization of quantum emitters in a cavity. Physical Review B, 2020, 102, .	3.2	62
14	The effect of atom losses on the distribution of rapidities in the one-dimensional Bose gas. SciPost Physics, 2020, 9, .	4.9	50
15	Entanglement Spectra of Complex Paired Superfluids. Physical Review Letters, 2011, 107, 157001.	7.8	46
16	Conformal field theory on top of a breathing one-dimensional gas of hard core bosons. SciPost Physics, 2019, 6, .	4.9	44
17	Universal behavior of a bipartite fidelity at quantum criticality. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, L03002.	2.3	43
18	More on the rainbow chain: entanglement, space-time geometry and thermal states. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 164001.	2.1	41

#	ARTICLE	IF	CITATIONS
19	Generalized hydrodynamics in the one-dimensional Bose gas: theory and experiments. Journal of Statistical Mechanics: Theory and Experiment, 2022, 2022, 014003.	2.3	41
20	The Inhomogeneous Gaussian Free Field, with application to ground state correlations of trapped 1d Bose gases. SciPost Physics, 2018, 4, .	4.9	39
21	One-particle density matrix of trapped one-dimensional impenetrable bosons from conformal invariance. SciPost Physics, 2017, 2, .	4.9	37
22	Domain wall melting in the spin- $\frac{1}{2}$ XXZ spin chain: Emergent Luttinger liquid with a fractal quasiparticle charge. Physical Review B, 2020, 102, .	3.2	29
23	Entanglement entropies of inhomogeneous Luttinger liquids. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 155001.	2.1	21
24	Exact entanglement growth of a one-dimensional hard-core quantum gas during a free expansion. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 404002.	2.1	20
25	Quantum generalized hydrodynamics of the Tonks-Girardeau gas: density fluctuations and entanglement entropy. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 024003.	2.1	20
26	Breakdown of Tan's Relation in Lossy One-Dimensional Bose Gases. Physical Review Letters, 2021, 126, 160603.	7.8	19
27	Large random arrowhead matrices: Multifractality, semilocalization, and protected transport in disordered quantum spins coupled to a cavity. Physical Review A, 2022, 105, .	2.5	18
28	Inhomogeneous Gaussian free field inside the interacting arctic curve. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 013102.	2.3	15
29	Exact hydrodynamic solution of a double domain wall melting in the spin-1/2 XXZ model. SciPost Physics, 2022, 12, .	4.9	12
30	Effects of energy extensivity on the quantum phases of long-range interacting systems. Physical Review B, 2021, 103, .	3.2	3