

Daniele Oriti

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3355501/publications.pdf>

Version: 2024-02-01

104
papers

3,549
citations

117625

34
h-index

168389

53
g-index

105
all docs

105
docs citations

105
times ranked

537
citing authors

#	ARTICLE	IF	CITATIONS
1	Spacetime geometry from algebra: spin foam models for non-perturbative quantum gravity. Reports on Progress in Physics, 2001, 64, 1703-1757.	20.1	150
2	Cosmology from Group Field Theory Formalism for Quantum Gravity. Physical Review Letters, 2013, 111, 031301.	7.8	126
3	Deformed special relativity as an effective flat limit of quantum gravity. Nuclear Physics B, 2005, 708, 411-433.	2.5	115
4	Homogeneous cosmologies as group field theory condensates. Journal of High Energy Physics, 2014, 2014, 1.	4.7	111
5	Group Field Theory with Noncommutative Metric Variables. Physical Review Letters, 2010, 105, 221302.	7.8	105
6	Renormalization of a SU(2) Tensorial Group Field Theory in Three Dimensions. Communications in Mathematical Physics, 2014, 330, 581-637.	2.2	100
7	Group field theory and simplicial gravity path integrals: A model for Holst-Plebanski gravity. Physical Review D, 2012, 85, .	4.7	95
8	Emergent Friedmann dynamics with a quantum bounce from quantum gravity condensates. Classical and Quantum Gravity, 2016, 33, 224001.	4.0	86
9	Disappearance and emergence of space and time in quantum gravity. Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics, 2014, 46, 186-199.	1.4	85
10	Group field theory as the second quantization of loop quantum gravity. Classical and Quantum Gravity, 2016, 33, 085005.	4.0	85
11	Group field theory renormalization in the 3D case: Power counting of divergences. Physical Review D, 2009, 80, .	4.7	79
12	The microscopic dynamics of quantum space as a group field theory. , 2012, , 257-320.		76
13	Renormalization of Tensorial Group Field Theories: Abelian U(1) Models in Four Dimensions. Communications in Mathematical Physics, 2014, 327, 603-641.	2.2	75
14	Diffeomorphisms in group field theories. Physical Review D, 2011, 83, .	4.7	74
15	Bouncing cosmologies from quantum gravity condensates. Classical and Quantum Gravity, 2017, 34, 04LT01.	4.0	71
16	Functional renormalisation group approach for tensorial group field theory: a rank-3 model. Journal of High Energy Physics, 2015, 2015, 1.	4.7	67
17	The universe as a quantum gravity condensate. Comptes Rendus Physique, 2017, 18, 235-245.	0.9	61
18	Non-commutative flux representation for loop quantum gravity. Classical and Quantum Gravity, 2011, 28, 175011.	4.0	60

#	ARTICLE	IF	CITATIONS
19	Quantum simplicial geometry in the group field theory formalism: reconsidering the Barrett-Crane model. <i>New Journal of Physics</i> , 2011, 13, 125011.	2.9	60
20	Quantum cosmology from quantum gravity condensates: cosmological variables and lattice-refined dynamics. <i>New Journal of Physics</i> , 2014, 16, 123004.	2.9	53
21	Quantization maps, algebra representation, and non-commutative Fourier transform for Lie groups. <i>Journal of Mathematical Physics</i> , 2013, 54, .	1.1	52
22	Ten questions on Group Field Theory (and their tentative answers). <i>Journal of Physics: Conference Series</i> , 2012, 360, 012002.	0.4	50
23	The group field theory approach to Quantum Gravity. , 0, , 310-331.		49
24	Group field theories for all loop quantum gravity. <i>New Journal of Physics</i> , 2015, 17, 023042.	2.9	49
25	Functional renormalization group analysis of tensorial group field theories on \mathbb{R}^d . <i>Physical Review D</i> , 2016, 94, .	4.7	47
26	Dimensional flow in discrete quantum geometries. <i>Physical Review D</i> , 2015, 91, .	4.7	46
27	Functional Renormalization Group analysis of a Tensorial Group Field Theory on \mathbb{R}^3 . <i>Europhysics Letters</i> , 2015, 112, 31001.	2.0	45
28	Four-dimensional deformed special relativity from group field theories. <i>Physical Review D</i> , 2010, 81, .	4.7	44
29	Asymptotic safety. , 0, , 111-128.		42
30	Horizon Entropy from Quantum Gravity Condensates. <i>Physical Review Letters</i> , 2016, 116, 211301.	7.8	41
31	Implementing causality in the spin foam quantum geometry. <i>Nuclear Physics B</i> , 2003, 663, 231-279.	2.5	38
32	Group field theory formulation of 3D quantum gravity coupled to matter fields. <i>Classical and Quantum Gravity</i> , 2006, 23, 6543-6575.	4.0	37
33	Fractional and noncommutative spacetimes. <i>Physical Review D</i> , 2011, 84, .	4.7	36
34	Generalized quantum gravity condensates for homogeneous geometries and cosmology. <i>Classical and Quantum Gravity</i> , 2015, 32, 235016.	4.0	36
35	Spin foam model for pure gauge theory coupled to quantum gravity. <i>Physical Review D</i> , 2002, 66, .	4.7	35
36	Group field cosmology: a cosmological field theory of quantum geometry. <i>Classical and Quantum Gravity</i> , 2012, 29, 105005.	4.0	35

#	ARTICLE	IF	CITATIONS
37	Cosmological perturbations from full quantum gravity. <i>Physical Review D</i> , 2018, 98, .	4.7	35
38	Gluing 4-simplices: A derivation of the Barrett-Crane spin foam model for Euclidean quantum gravity. <i>Physical Review D</i> , 2000, 63, .	4.7	34
39	Spectral dimension of quantum geometries. <i>Classical and Quantum Gravity</i> , 2014, 31, 135014.	4.0	34
40	Renormalization of an Abelian tensor group field theory: solution at leading order. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	33
41	Renormalizable group field theory beyond melonic diagrams: An example in rank four. <i>Physical Review D</i> , 2017, 96, .	4.7	33
42	Group field theory for quantum gravity minimally coupled to a scalar field. <i>Classical and Quantum Gravity</i> , 2017, 34, 195001.	4.0	32
43	Barrett-Crane spin foam model from generalized BF-type action for gravity. <i>Physical Review D</i> , 2002, 65, .	4.7	30
44	The causal set approach to Quantum Gravity. , 2009, , 393-413.		30
45	Black holes as quantum gravity condensates. <i>Physical Review D</i> , 2018, 97, .	4.7	30
46	Functional renormalization group analysis of rank-3 tensorial group field theory: The full quartic invariant truncation. <i>Physical Review D</i> , 2018, 97, .	4.7	30
47	Toward classical geometrodynamics from the group field theory hydrodynamics. <i>New Journal of Physics</i> , 2011, 13, 025006.	2.9	28
48	Melonic Phase Transition in Group Field Theory. <i>Letters in Mathematical Physics</i> , 2014, 104, 1003-1017.	1.1	27
49	Group field theory and tensor networks: towards a Ryuâ€Takayanagi formula in full quantum gravity. <i>Classical and Quantum Gravity</i> , 2018, 35, 115011.	4.0	26
50	About Lorentz invariance in a discrete quantum setting. <i>Journal of High Energy Physics</i> , 2004, 2004, 050-050.	4.7	25
51	Statistical equilibrium in quantum gravity: Gibbs states in group field theory. <i>New Journal of Physics</i> , 2018, 20, 073009.	2.9	25
52	Feynman Propagator for Spin Foam Quantum Gravity. <i>Physical Review Letters</i> , 2005, 94, 111301.	7.8	24
53	A quantum field theory of simplicial geometry and the emergence of spacetime. <i>Journal of Physics: Conference Series</i> , 2007, 67, 012052.	0.4	23
54	Classical general relativity as BF-Plebanski theory with linear constraints. <i>Classical and Quantum Gravity</i> , 2010, 27, 185017.	4.0	23

#	ARTICLE	IF	CITATIONS
55	Effective relational cosmological dynamics from quantum gravity. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	23
56	Bounding bubbles: The vertex representation of 3d group field theory and the suppression of pseudomanifolds. <i>Physical Review D</i> , 2012, 85, .	4.7	22
57	Laplacians on discrete and quantum geometries. <i>Classical and Quantum Gravity</i> , 2013, 30, 125006.	4.0	22
58	Separate universe framework in group field theory condensate cosmology. <i>Physical Review D</i> , 2018, 98, .	4.7	22
59	Effective Hamiltonian constraint from group field theory. <i>Classical and Quantum Gravity</i> , 2011, 28, 245010.	4.0	21
60	Statistical equilibrium of tetrahedra from maximum entropy principle. <i>Physical Review D</i> , 2019, 99, .	4.7	20
61	Inequivalent coherent state representations in group field theory. <i>Classical and Quantum Gravity</i> , 2018, 35, 125011.	4.0	19
62	Two-point functions in (loop) quantum cosmology. <i>Classical and Quantum Gravity</i> , 2011, 28, 125014.	4.0	18
63	Bubbles and jackets: new scaling bounds in topological group field theories. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	18
64	Fisher metric, geometric entanglement, and spin networks. <i>Physical Review D</i> , 2018, 97, .	4.7	18
65	Dynamics of anisotropies close to a cosmological bounce in quantum gravity. <i>Classical and Quantum Gravity</i> , 2018, 35, 015014.	4.0	18
66	Boundary terms in the Barrett–Crane spin foam model and consistent gluing. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002, 532, 363-372.	4.1	17
67	Causality and matter propagation in 3D spin foam quantum gravity. <i>Physical Review D</i> , 2006, 74, .	4.7	17
68	Quantum mechanics on $SO(3)$ via noncommutative dual variables. <i>Physical Review D</i> , 2011, 84, .	4.7	17
69	Towards a double scaling limit for tensor models: probing sub-dominant orders. <i>New Journal of Physics</i> , 2014, 16, 063048.	2.9	17
70	Generalized group field theories and quantum gravity transition amplitudes. <i>Physical Review D</i> , 2006, 73, .	4.7	16
71	Coherent states for quantum gravity: toward collective variables. <i>Classical and Quantum Gravity</i> , 2012, 29, 135002.	4.0	16
72	Coherent states in quantum gravity: a construction based on the flux representation of loop quantum gravity. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 244004.	2.1	16

#	ARTICLE	IF	CITATIONS
73	Group Field Theory and Loop Quantum Gravity. International Journal of Population Studies, 2017, , 125-151.	0.1	16
74	Coupling of spacetime atoms in 4D spin foam models from group field theory. Journal of High Energy Physics, 2007, 2007, 092-092.	4.7	15
75	A new class of group field theories for first order discrete quantum gravity. Classical and Quantum Gravity, 2008, 25, 085011.	4.0	15
76	Spinfoam 2D quantum gravity and discrete bundles. Classical and Quantum Gravity, 2005, 22, 85-108.	4.0	12
77	Emergent non-commutative matter fields from group field theory models of quantum spacetime. Journal of Physics: Conference Series, 2009, 174, 012047.	0.4	12
78	Generalized conservation laws in non-local field theories. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 135401.	2.1	12
79	Ryu-Takayanagi formula for symmetric random tensor networks. Physical Review D, 2018, 97, .	4.7	12
80	Group field theory and holographic tensor networks: dynamical corrections to the Ryu-Takayanagi formula. Classical and Quantum Gravity, 2020, 37, 095011.	4.0	12
81	Spin foam models and the Duflo map. Classical and Quantum Gravity, 2020, 37, 015010.	4.0	12
82	Recent Progress in Group Field Theory. , 2009, , .		11
83	Renormalization of a tensorial field theory on the homogeneous space $SU(2)/U(1)$. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 025201.	2.1	11
84	Quantum gravity states, entanglement graphs and second-quantized tensor networks. Journal of High Energy Physics, 2021, 2021, 1.	4.7	11
85	Noncommutative Fourier transform for the Lorentz group via the Duflo map. Physical Review D, 2019, 99, .	4.7	10
86	Coherent states for 3d deformed special relativity: semi-classical points in a quantum flat spacetime. Journal of High Energy Physics, 2005, 2005, 050-050.	4.7	9
87	Continuous point symmetries in group field theories. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 125402.	2.1	9
88	Holographic maps from quantum gravity states as tensor networks. Physical Review D, 2022, 105, .	4.7	9
89	Quantum Gravity as a Quantum Field Theory of Simplicial Geometry. , 2006, , 101-126.		8
90	Group field theory as the microscopic quantum description of the spacetime fluid. , 2008, , .		8

#	ARTICLE	IF	CITATIONS
91	Effective dynamics of scalar cosmological perturbations from quantum gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 004.	5.4	8
92	Emergent matter from 3D generalized group field theories. <i>Classical and Quantum Gravity</i> , 2010, 27, 145006.	4.0	7
93	Emergent cosmology from quantum gravity in the Lorentzian Barrett-Crane tensorial group field theory model. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 050.	5.4	7
94	Renormalization of Group Field Theories for Quantum Gravity: New Computations and Some Suggestions. <i>Frontiers in Physics</i> , 2021, 8, .	2.1	6
95	Phase transitions in tensorial group field theories: Landau-Ginzburg analysis of models with both local and non-local degrees of freedom. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	6
96	Phantom-like dark energy from quantum gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 040.	5.4	6
97	Bulk area law for boundary entanglement in spin network states: Entropy corrections and horizon-like regions from volume correlations. <i>Physical Review D</i> , 2022, 105, .	4.7	6
98	Discrete and Continuum Third Quantization of Gravity. , 2012, , 41-64.		5
99	Quantum gravity as a group field theory: a sketch. <i>Journal of Physics: Conference Series</i> , 2006, 33, 271-278.	0.4	4
100	Editorial for the Special Issue "Progress in Group Field Theory and Related Quantum Gravity Formalisms". <i>Universe</i> , 2020, 6, 19.	2.5	4
101	Asymptotic Analysis of the Ponzano-Regge Model with Non-Commutative Metric Boundary Data. <i>Symmetry, Integrability and Geometry: Methods and Applications (SIGMA)</i> , 0, , .	0.5	4
102	Effective cosmology from one-body operators in group field theory. <i>Classical and Quantum Gravity</i> , 2022, 39, 075002.	4.0	4
103	Quantum geometric maps and their properties. <i>Classical and Quantum Gravity</i> , 2022, 39, 135014.	4.0	3
104	No Alternative to Proliferation. , 2019, , 125-153.		0