Matthias R Gaberdiel

List of Publications by Year
in descending order

151 papers	6,076 citations	53794 45 h-index	85541 71 g-index
151 all docs	151 docs citations	151 times ranked	1060 citing authors

#	Article	IF	Citations
1	An AdS_3 dual for minimal model CFTs. Physical Review D, 2011, 83, .	4.7	200
2	A rational logarithmic conformal field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 386, 131-137.	4.1	187
3	Symmetries of holographic minimal models. Journal of High Energy Physics, 2011, 2011, 1.	4.7	183
4	AN ALGEBRAIC APPROACH TO LOGARITHMIC CONFORMAL FIELD THEORY. International Journal of Modern Physics A, 2003, 18, 4593-4638.	1.5	160
5	A local logarithmic conformal field theory. Nuclear Physics B, 1999, 538, 631-658.	2.5	145
6	Triality in minimal model holography. Journal of High Energy Physics, 2012, 2012, 1.	4.7	142
7	Higher spins & strings. Journal of High Energy Physics, 2014, 2014, 1.	4.7	133
8	Tensor constructions of open string theories (I) foundations. Nuclear Physics B, 1997, 505, 569-624.	2.5	127
9	The worldsheet dual of the symmetric product CFT. Journal of High Energy Physics, 2019, 2019, 1.	4.7	123
10	Partition functions of holographic minimal models. Journal of High Energy Physics, 2011, 2011, 1.	4.7	113
11	A non-supersymmetric open-string theory and S-duality. Nuclear Physics B, 1997, 499, 183-204.	2.5	111
12	Stable non-BPS D-particles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 441, 133-140.	4.1	110
13	The heat kernel on AdS 3 and its applications. Journal of High Energy Physics, 2010, 2010, 1.	4.7	99
14	Deriving the AdS3/CFT2 correspondence. Journal of High Energy Physics, 2020, 2020, 1.	4.7	99
15	Minimal model holography. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 214002.	2.1	97
16	Quantum $ \mathcal{W} $-symmetry in AdS3. Journal of High Energy Physics, 2011, 2011, 1.	4.7	96
17	Large $ \mathcal{N} $ = 4 holography. Journal of High Energy Physics, 2013, 2013, 1.	4.7	96
18	Tensionless string spectra on AdS3. Journal of High Energy Physics, 2018, 2018, 1.	4.7	94

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19	Higher spin black holes from CFT. Journal of High Energy Physics, 2012, 2012, 1.	4.7	85
20	Fusion rules and logarithmic representations of a WZW model at fractional level. Nuclear Physics B, 2001, 618, 407-436.	2.5	84
21	Dualities of type 0 strings. Journal of High Energy Physics, 1999, 1999, 022-022.	4.7	77
22	Mathieu twining characters for K3. Journal of High Energy Physics, 2010, 2010, 1.	4.7	77
23	The no-ghost theorem for AdS3 and the stringy exclusion principle. Nuclear Physics B, 1998, 535, 152-170.	2.5	72
24	Lectures on non-BPS Dirichlet branes. Classical and Quantum Gravity, 2000, 17, 3483-3520.	4.0	72
25	A class of Lorentzian Kacâ€"Moody algebras. Nuclear Physics B, 2002, 645, 403-437.	2.5	71
26	Mathieu Moonshine in the elliptic genus of K3. Journal of High Energy Physics, 2010, 2010, 1.	4.7	71
27	Symmetries of K3 sigma models. Communications in Number Theory and Physics, 2012, 6, 1-50.	1.0	70
28	Conformal boundary states for free bosons and fermions. Journal of High Energy Physics, 2001, 2001, 016-016.	4.7	66
29	Worldsheet correlators in AdS3/CFT2. Journal of High Energy Physics, 2007, 2007, 050-050.	4.7	66
30	Loop Operators and the Kondo Problem. Journal of High Energy Physics, 2004, 2004, 065-065.	4.7	65
31	From boundary to bulk in logarithmic CFT. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 075402.	2.1	65
32	An introduction to conformal field theory. Reports on Progress in Physics, 2000, 63, 607-667.	20.1	62
33	Topological defects for the free boson CFT. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 11403-11440.	2.1	62
34	D-brane interactions in type IIB plane-wave background. Journal of High Energy Physics, 2003, 2003, 002-002.	4.7	61
35	Higgsing the stringy higher spin symmetry. Journal of High Energy Physics, 2015, 2015, 1.	4.7	60
36	Minimal model holography for SO(2N). Journal of High Energy Physics, 2011, 2011, 1.	4.7	58

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37	A holographic dual for string theory on AdS3Ã—S3Ã—S3Ã—S1. Journal of High Energy Physics, 2017, 2017, 1.	4.7	57
38	Rationality, Quasirationality and Finite W-Algebras. Communications in Mathematical Physics, 2003, 238, 305-331.	2.2	52
39	Matrix factorisations and permutation branes. Journal of High Energy Physics, 2005, 2005, 012-012.	4.7	52
40	String theory as a higher spin theory. Journal of High Energy Physics, 2016, 2016, 1.	4.7	51
41	Axiomatic Conformal Field Theory. Communications in Mathematical Physics, 2000, 209, 549-594.	2.2	48
42	Boundary states for WZW models. Nuclear Physics B, 2002, 639, 471-501.	2.5	48
43	Graviton 1-loop partition function for 3-dimensional massive gravity. Journal of High Energy Physics, 2010, 2010, 1.	4.7	48
44	BPS spectrum on AdS3Ã—S3Ã—S3Ã—S1. Journal of High Energy Physics, 2017, 2017, 1.	4.7	46
45	The logarithmic triplet theory with boundary. Journal of Physics A, 2006, 39, 14745-14779.	1.6	45
46	Duality in $ mathcal{N}=2 $ minimal model holography. Journal of High Energy Physics, 2013, 2013, 1.	4.7	44
47	Stringy AdS3 from the worldsheet. Journal of High Energy Physics, 2017, 2017, 1.	4.7	44
48	Higher spins on AdS3 from the worldsheet. Journal of High Energy Physics, 2017, 2017, 1.	4.7	44
49	Generalized Mathieu Moonshine. Communications in Number Theory and Physics, 2013, 7, 145-223.	1.0	44
50	Dirichlet branes on orbifolds. Nuclear Physics B, 2000, 578, 58-84.	2.5	42
51	Non-BPS states in heterotic-type IIA duality. Journal of High Energy Physics, 1999, 1999, 013-013.	4.7	40
52	Logarithmic torus amplitudes. Journal of Physics A, 2006, 39, 1955-1967.	1.6	40
53	Gravity dual of the Ising model. Physical Review D, 2012, 85, .	4.7	40
54	Supersymmetric holography on AdS3. Journal of High Energy Physics, 2013, 2013, 1.	4.7	40

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55	String creation and heterotic-type Iâ€² duality. Nuclear Physics B, 1998, 524, 524-544.	2.5	39
56	Modular differential equations and null vectors. Journal of High Energy Physics, 2008, 2008, 079-079.	4.7	39
57	Even spin minimal model holography. Journal of High Energy Physics, 2013, 2013, 1.	4.7	39
58	The D-instanton and other supersymmetric D-branes in IIB plane-wave string theory. Annals of Physics, 2003, 307, 147-194.	2.8	38
59	Stringy symmetries and the higher spin square. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 185402.	2.1	38
60	String theory on AdS3 and the symmetric orbifold of Liouville theory. Nuclear Physics B, 2019, 948, 114774.	2.5	36
61	Non-supersymmetric D-brane configurations with Bose-Fermi degenerate open string spectrum. Journal of High Energy Physics, 1999, 1999, 008-008.	4.7	35
62	Higher spins and Yangian symmetries. Journal of High Energy Physics, 2017, 2017, 1.	4.7	35
63	Asymmetric orientifolds, brane supersymmetry breaking and non-BPS branes. Nuclear Physics B, 2000, 589, 545-576.	2.5	34
64	The large $ mathcal{N} $ = 4 superconformal $ mathcal{W} $ âˆž algebra. Journal of High Energy Physics, 2014, 2014, 1.	4.7	34
65	Fusion rules and boundary conditions in the<i>c</i>= 0 triplet model. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 325403.	2.1	33
66	D-brane superpotentials and RG flows on the quintic. Journal of High Energy Physics, 2007, 2007, 061-061.	4.7	32
67	Limits of minimal models and continuous orbifolds. Journal of High Energy Physics, 2012, 2012, 1.	4.7	32
68	The symmetry of large $ mathcal{N} $ = 4 holography. Journal of High Energy Physics, 2014, 2014, 1.	4.7	32
69	Free field world-sheet correlators for AdS3. Journal of High Energy Physics, 2021, 2021, 1.	4.7	32
70	FUSION IN CONFORMAL FIELD THEORY AS THE TENSOR PRODUCT OF THE SYMMETRY ALGEBRA. International Journal of Modern Physics A, 1994, 09, 4619-4636.	1.5	31
71	A modular invariant bulk theory for the oldsymbol{c=0} triplet model. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 015204.	2.1	31
72	Extremal $CN=(2,2)$ 2D conformal field theories and constraints of modularity. Communications in Number Theory and Physics, 2008, 2, 743-801.	1.0	31

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73	Discrete torsion orbifolds and D-branes. Journal of High Energy Physics, 2000, 2000, 026-026.	4.7	29
74	Bulk-induced boundary perturbations. Journal of Physics A: Mathematical and Theoretical, 2007, 40, F17-F31.	2.1	29
75	Probing higher spin black holes from CFT. Journal of High Energy Physics, 2013, 2013, 1.	4.7	27
76	Perturbations of $ mathcal{W} $ âˆž CFTs. Journal of High Energy Physics, 2013, 2013, 1.	4.7	27
77	Fusion of Twisted Representations. International Journal of Modern Physics A, 1997, 12, 5183-5207.	1.5	25
78	D-branes in an asymmetric orbifold. Nuclear Physics B, 2003, 654, 177-196.	2.5	25
79	Conformal perturbation theory beyond the leading order. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 105402.	2.1	25
80	The supersymmetric affine Yangian. Journal of High Energy Physics, 2018, 2018, 1.	4.7	25
81	Three-point functions in AdS3/CFT2 holography. Journal of High Energy Physics, 2019, 2019, 1.	4.7	25
82	Genus two partition functions of chiral conformal field theories. Communications in Number Theory and Physics, 2010, 4, 295-363.	1.0	24
83	String Dual to Free <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">N</mml:mi><mml:mo>=</mml:mo><mml:mn>4</mml:mn></mml:math> Supersymmetric Yang-Mills Theory. Physical Review Letters, 2021, 127, 131601.	7.8	23
84	Fusion rules of chiral algebras. Nuclear Physics B, 1994, 417, 130-150.	2.5	22
85	Generalised discrete torsion and mirror symmetry for G2manifolds. Journal of High Energy Physics, 2004, 2004, 001-001.	4.7	22
86	Twin-plane-partitions and $$ mathcal{N} $$ = 2 affine Yangian. Journal of High Energy Physics, 2018, 2018, 1.	4.7	22
87	Stringy N $$ mathcal{N} $$ = (2, 2) holography for AdS3. Journal of High Energy Physics, 2018, 2018, 1.	4.7	22
88	Strings on AdS3 Ã— S3 Ã— S3 Ã— S1. Journal of High Energy Physics, 2019, 2019, 1.	4.7	22
89	D-brane charges on non-simply connected groups. Journal of High Energy Physics, 2004, 2004, 030-030.	4.7	21
90	A K3 sigma model with $ mathbb{Z}_2^8 $: $ {{mathbb{M}}_{20 }} $ symmetry. Journal of High Energy Physics, 2014, 2014, 1.	4.7	21

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91	A general transformation formula for conformal fields. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 325, 366-370.	4.1	20
92	Scattering states of plektons (particles with braid group statistics) in 2+1 dimensional quantum field theory. Communications in Mathematical Physics, 1996, 175, 319-335.	2.2	20
93	Oblique and curved D-branes in IIB plane-wave string theory. Journal of High Energy Physics, 2003, 2003, 052-052.	4.7	20
94	Higher spin algebras and large $$ \mathcal{N} $$ = 4 holography. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
95	An SL(2,Bbb Z) anomaly in IIB supergravity and its F-theory interpretation. Journal of High Energy Physics, 1998, 1998, 026-026.	4.7	19
96	The charges of a twisted brane. Journal of High Energy Physics, 2004, 2004, 018-018.	4.7	19
97	The RR charges of the A-type Gepner models. Journal of High Energy Physics, 2006, 2006, 111-111.	4.7	19
98	From symmetric product CFTs to AdS3. Journal of High Energy Physics, 2021, 2021, 1.	4.7	19
99	Generalised N=2 permutation branes. Journal of High Energy Physics, 2006, 2006, 041-041.	4.7	18
100	The matrix factorizations of the D-model. Journal of Physics A, 2005, 38, 7901-7919.	1.6	17
101	Matrix factorisations and D-branes on K3. Journal of High Energy Physics, 2006, 2006, 015-015.	4.7	17
102	The coset D-branes of SU(n). Journal of High Energy Physics, 2004, 2004, 047-047.	4.7	16
103	World-sheet duality for D-branes with travelling waves. Journal of High Energy Physics, 2004, 2004, 015-015.	4.7	16
104	Monstrous Branes. Communications in Mathematical Physics, 2003, 234, 229-251.	2.2	15
105	The D-branes of SU(n). Journal of High Energy Physics, 2004, 2004, 015-015.	4.7	15
106	The continuous orbifold of N $$ \mathcal{N} $$ = 2 minimal model holography. Journal of High Energy Physics, 2014, 2014, 1.	4.7	15
107	Mathieu Moonshine and Orbifold K3s. Contributions in Mathematical and Computational Sciences, 2014, , 109-141.	0.3	15
108	Discrete torsion orbifolds and D-branes II. Journal of High Energy Physics, 2001, 2001, 013-013.	4.7	14

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109	The massless string spectrum on AdS3â€‰Ã—â€‰S 3 from the supergroup. Journal of High Energy Physics, 2011, 2011, 1.	4.7	14
110	$ mathcal{N}=1 $ extension of minimal model holography. Journal of High Energy Physics, 2013, 2013, 1.	4.7	14
111	D-branes in AdS3 Ã— S3 Ã— ?4 at k = 1 and their holographic duals. Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
112	Constraints on extremal self-dual CFTs. Journal of High Energy Physics, 2007, 2007, 087-087.	4.7	13
113	Bulk flows in Virasoro minimal models with boundaries. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 495403.	2.1	13
114	The plane-wave limit of AdS3Ã—S3Ã—S3Ã—S1. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
115	The worldsheet dual of free super Yang-Mills in 4D. Journal of High Energy Physics, 2021, 2021, 1.	4.7	13
116	N=2 superconformal boundary states for free bosons and fermions. Nuclear Physics B, 2004, 693, 281-301.	2.5	12
117	Cosets of meromorphic CFTs and modular differential equations. Journal of High Energy Physics, 2016, 2016, 1-13.	4.7	12
118	Abelian duality in WZW models. Nuclear Physics B, 1996, 471, 217-232.	2.5	11
119	Symmetries of perturbed conformal field theories. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 13685-13709.	2.1	11
120	Twisted sectors from plane partitions. Journal of High Energy Physics, 2016, 2016, 1.	4.7	11
121	Non-BPS Dirichlet branes. Classical and Quantum Gravity, 2000, 17, 961-969.	4.0	10
122	The spectrum of light states in large N minimal models. Journal of High Energy Physics, 2014, 2014, 1.	4.7	10
123	D-branes from conformal field theory. Fortschritte Der Physik, 2002, 50, 783-801.	4.4	9
124	Remarks on the rolling tachyon BCFT. Journal of High Energy Physics, 2005, 2005, 051-051.	4.7	9
125	Higher genus partition functions of meromorphic conformal field theories. Journal of High Energy Physics, 2009, 2009, 048-048.	4.7	8
126	Higher spins in the symmetric orbifold of K3. Physical Review D, 2015, 92, .	4.7	8

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127	The symmetric orbifold of N = 2 $$ mathcal{N}=2 $$ minimal models. Journal of High Energy Physics, 2016, 2016, 1.	4.7	8
128	Stress-energy tensor correlators from the world-sheet. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
129	An explicit construction of the quantum group in chiral WZW-models. Communications in Mathematical Physics, 1995, 173, 357-377.	2.2	7
130	Matrix model eigenvalue integrals and twist fields in thesu(2)-WZW model. Journal of High Energy Physics, 2005, 2005, 107-107.	4.7	7
131	Charges of twisted branes: the exceptional cases. Journal of High Energy Physics, 2005, 2005, 058-058.	4.7	7
132	Borcherds algebras and $ mathcal{N} = 4 $ topological amplitudes. Journal of High Energy Physics, 2011, 2011, 1.	4.7	7
133	The so-Kazama-Suzuki models at large level. Journal of High Energy Physics, 2015, 2015, 1.	4.7	7
134	The physical states of the Hybrid Formalism. Journal of High Energy Physics, 2021, 2021, 1.	4.7	7
135	WZW models of general simple groups. Nuclear Physics B, 1996, 460, 181-202.	2.5	6
136	Obstructions and lines of marginal stability from the world-sheet. Journal of High Energy Physics, 2009, 2009, 007-007.	4.7	5
137	Manifestly supersymmetric RG flows. Journal of High Energy Physics, 2010, 2010, 1.	4.7	5
138	Mathieu Moonshine and symmetry surfing. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 474002.	2.1	5
139	Logarithmic Bulk and Boundary Conformal Field Theory and the Full Centre Construction. Mathematical Lectures From Peking University, 2014, , 93-168.	0.4	5
140	The small $mathcal{N}=4$ superconformal ${mathcal{W}}_{infty }$ algebra. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 395401.	2.1	5
141	The type I D-instanton and its M-theory origin. Journal of High Energy Physics, 2000, 2000, 004-004.	4.7	4
142	Bulk perturbations ofN= 2 branes. Journal of High Energy Physics, 2007, 2007, 087-087.	4.7	4
143	Stringy CFT duals with $$ mathcal{N} $$ = (2, 2) supersymmetry. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4
144	Consistency of orbifolds. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 481, 379-385.	4.1	3

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145	Twisted brane charges for non-simply connected groups. Journal of High Energy Physics, 2007, 2007, 035-035.	4.7	3
146	D-branes at multicritical points. Journal of High Energy Physics, 2008, 2008, 086-086.	4.7	3
147	Modular differential equations for torus one-point functions. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 045405.	2.1	3
148	Bulk-induced boundary perturbations for {cal N}=1 superconformal field theories on the circle. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 115209.	2.1	1
149	Higher-spin theory and holography. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 210301.	2.1	1
150	Deformed Shatashvili-Vafa algebra for superstrings on AdS3 Ã— â„³7. Journal of High Energy Physics, 2021, 2021, 1.	4.7	1
151	String Theory and Spacetime Geometry. Einstein Studies, 2018, , 475-490.	0.4	0