

PUBLICATIONS

as of June 30, 2009

References

- [1] V. Balasubramanian, J. de Boer, M. M. Sheikh-Jabbari and J. Simon, “What is a chiral 2d CFT? And what does it have to do with extremal black holes?,” arXiv:0906.3272 [hep-th].
- [2] J. de Boer, S. El-Showk, I. Messamah and D. V. d. Bleeken, “A bound on the entropy of supergravity?,” arXiv:0906.0011 [hep-th].
- [3] J. de Boer, V. E. Hubeny, M. Rangamani and M. Shigemori, “Brownian motion in AdS/CFT,” arXiv:0812.5112 [hep-th].
- [4] V. Balasubramanian, J. de Boer, S. El-Showk and I. Messamah, “Black Holes as Effective Geometries,” *Class. Quant. Grav.* **25**, 214004 (2008) [arXiv:0811.0263 [hep-th]].
- [5] J. De Boer, “Black hole bound states and their quantization,” *Int. J. Mod. Phys. A* **23**, 2211 (2008).
- [6] J. de Boer, K. Papadodimas and E. Verlinde, “Black Hole Berry Phase,” arXiv:0809.5062 [hep-th].
- [7] J. de Boer, J. Manschot, K. Papadodimas and E. Verlinde, “The chiral ring of AdS3/CFT2 and the attractor mechanism,” *JHEP* **0903**, 030 (2009) [arXiv:0809.0507 [hep-th]].
- [8] J. de Boer, S. El-Showk, I. Messamah and D. V. d. Bleeken, “Quantizing N=2 Multicenter Solutions,” arXiv:0807.4556 [hep-th].
- [9] J. de Boer, A. Naqvi and A. Shomer, “Topological strings and special holonomy manifolds,” *In *Islamabad 2006, Mathematical physics* 177-189*
- [10] V. Balasubramanian, J. de Boer and A. Naqvi, “Statistical Predictions From Anarchic Field Theory Landscapes,” arXiv:0805.4196 [hep-th].

- [11] J. de Boer, F. Denef, S. El-Showk, I. Messamah and D. Van den Bleeken, “Black hole bound states in $\text{AdS}_3 \times S^2$,” *JHEP* **0811**, 050 (2008) [arXiv:0802.2257 [hep-th]].
- [12] L. Baulieu, J. de Boer, M. R. Douglas, E. Rabinovici, P. Vanhove and P. Windey, “Strings and branes: The present paradigm for gauge interactions and cosmology. Proceedings, International Conference, Cargese School on String Theory, Cargese, France, May 22-June 3, 2006,” *Prepared for Cargese Summer School on Strings and Branes: The Present Paradigm for Gauge Interactions and Cosmology, Cargese, France, 22 May - 3 Jun 2006*
- [13] V. Balasubramanian, J. de Boer, V. Jejjala and J. Simon, “Entropy of near-extremal black holes in AdS_5 ,” *JHEP* **0805**, 067 (2008) [arXiv:0707.3601 [hep-th]].
- [14] J. de Boer, P. de Medeiros, S. El-Showk and A. Sinkovics, “G2 Hitchin functionals at one loop,” *Class. Quant. Grav.* **25**, 075006 (2008) [arXiv:0706.3119 [hep-th]].
- [15] J. de Boer, P. de Medeiros, S. El-Showk and A. Sinkovics, “Open $G(2)$ Strings,” *JHEP* **0802**, 012 (2008) [arXiv:hep-th/0611080].
- [16] J. de Boer, M. C. N. Cheng, R. Dijkgraaf, J. Manschot and E. Verlinde, “A farey tail for attractor black holes,” *JHEP* **0611**, 024 (2006) [arXiv:hep-th/0608059].
- [17] L. F. Alday, J. de Boer and I. Messamah, “The gravitational description of coarse grained microstates,” *JHEP* **0612**, 063 (2006) [arXiv:hep-th/0607222].
- [18] L. Baulieu, B. Pioline, J. de Boer and E. Rabinovici, “String Theory: From Gauge Interactions To Cosmology. Proceedings, Nato Advanced Study Institute, Cargese, France, June 7-19, 2004,” *Prepared for NATO Advanced Study Institute and EC Summer School on String Theory: From Gauge Interactions to Cosmology, Cargese, France, 7- 19 Jun 2004*
- [19] L. F. Alday, J. de Boer and I. Messamah, “What is the dual of a dipole?,” *Nucl. Phys. B* **746**, 29 (2006) [arXiv:hep-th/0511246].

- [20] V. Balasubramanian, J. de Boer, V. Jejjala and J. Simon, “The library of Babel: On the origin of gravitational thermodynamics,” JHEP **0512**, 006 (2005) [arXiv:hep-th/0508023].
- [21] J. de Boer, A. Naqvi and A. Shomer, “The topological G(2) string,” arXiv:hep-th/0506211.
- [22] J. de Boer, A. Naqvi and A. Shomer, “Topological G(2) Strings,” Fortsch. Phys. **53**, 528 (2005).
- [23] J. de Boer, A. Naqvi and A. Shomer, “Towards a topological G(2) string,” arXiv:hep-th/0502140.
- [24] R. Boels and J. de Boer, “Classical spin chains and exact three-dimensional superpotentials,” Nucl. Phys. B **715**, 234 (2005) [arXiv:hep-th/0411110].
- [25] J. de Boer, L. Maoz and A. Naqvi, “Some aspects of the AdS/CFT correspondence,” arXiv:hep-th/0407212.
- [26] J. de Boer, V. Jejjala and D. Minic, “Alpha-states in de Sitter space,” Phys. Rev. D **71**, 044013 (2005) [arXiv:hep-th/0406217].
- [27] J. de Boer and S. de Haro, “The off-shell M5-brane and non-perturbative gauge theory,” Nucl. Phys. B **696**, 174 (2004) [arXiv:hep-th/0403035].
- [28] J. de Boer, A. Sinkovics, E. P. Verlinde and J. T. Yee, “String interactions in $c = 1$ matrix model,” JHEP **0403**, 023 (2004) [arXiv:hep-th/0312135].
- [29] J. de Boer, K. Schalm and J. Wijnhout, “General covariance of the non-Abelian DBI-action: Checks and balances,” Annals Phys. **313**, 425 (2004) [arXiv:hep-th/0310150].
- [30] M. Alishahiha, J. de Boer, A. E. Mosaffa and J. Wijnhout, “ $N = 1$ G(2) SYM theory and compactification to three dimensions,” JHEP **0309**, 066 (2003) [arXiv:hep-th/0308120].

- [31] J. de Boer, “Introduction to the AdS/CFT correspondence,” *Prepared for 10th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY02), Hamburg, Germany, 17-23 Jun 2002*
- [32] R. Boels, J. de Boer, R. Duivenvoorden and J. Wijnhout, “Factorization of Seiberg-Witten curves and compactification to three dimensions,” *JHEP* **0403**, 010 (2004) [arXiv:hep-th/0305189].
- [33] R. Boels, J. de Boer, R. Duivenvoorden and J. Wijnhout, “Nonperturbative superpotentials and compactification to three dimensions,” *JHEP* **0403**, 009 (2004) [arXiv:hep-th/0304061].
- [34] J. de Boer and S. N. Solodukhin, “A holographic reduction of Minkowski space-time,” *Nucl. Phys. B* **665**, 545 (2003) [arXiv:hep-th/0303006].
- [35] J. de Boer, “W algebras, gravity and strings,” *Prepared for 11th International Hutsulian Workshop on Group Theoretical Methods in Physics, Rakhiv, Ukraine, 25-31 Oct 1992*
- [36] J. de Boer, P. A. Grassi and P. van Nieuwenhuizen, “Non-commutative superspace from string theory,” *Phys. Lett. B* **574**, 98 (2003) [arXiv:hep-th/0302078].
- [37] J. de Boer, E. Gimon, K. Schalm and J. Wijnhout, “Evidence for a gravitational Myers effect,” *Annals Phys.* **313**, 402 (2004) [arXiv:hep-th/0212250].
- [38] V. Balasubramanian, J. de Boer, B. Feng, Y. H. He, M. x. Huang, V. Jejjala and A. Naqvi, “Multi-trace superpotentials vs. matrix models,” *Commun. Math. Phys.* **242**, 361 (2003) [arXiv:hep-th/0212082].
- [39] V. Balasubramanian, J. de Boer and D. Minic, “Holography, time and quantum mechanics,” arXiv:gr-qc/0211003.
- [40] J. de Boer, “String theory: An update,” *Nucl. Phys. Proc. Suppl.* **117**, 353 (2003) [arXiv:hep-th/0210224].

- [41] P. Fendley, K. Schoutens and J. de Boer, “Lattice models with $N = 2$ supersymmetry,” *Phys. Rev. Lett.* **90**, 120402 (2003) [arXiv:hep-th/0210161].
- [42] M. Bertolini, J. de Boer, T. Harmark, E. Imeroni and N. A. Obers, “Gauge theory description of compactified pp-waves,” *JHEP* **0301**, 016 (2003) [arXiv:hep-th/0209201].
- [43] J. de Boer, “D-Branes in Curved Space,” to appear in proceedings of Francqui Colloquium, 2001, “Strings and Gravity: Tying the Forces Together.
- [44] V. Balasubramanian, J. de Boer and D. Minic, “Exploring de Sitter space and holography,” *Class. Quant. Grav.* **19**, 5655 (2002) [*Annals Phys.* **303**, 59 (2003)] [arXiv:hep-th/0207245].
- [45] C. Bachas, J. de Boer, R. Dijkgraaf and H. Ooguri, “Permeable conformal walls and holography,” *JHEP* **0206**, 027 (2002) [arXiv:hep-th/0111210].
- [46] V. Balasubramanian, J. de Boer and D. Minic, “Mass, entropy and holography in asymptotically de Sitter spaces,” *Phys. Rev. D* **65**, 123508 (2002) [arXiv:hep-th/0110108].
- [47] J. De Boer and K. Schalm, “General covariance of the non-Abelian DBI-action,” *JHEP* **0302**, 041 (2003) [arXiv:hep-th/0108161].
- [48] J. de Boer, M. B. Halpern and N. A. Obers, “The operator algebra and twisted KZ equations of WZW orbifolds,” *JHEP* **0110**, 011 (2001) [arXiv:hep-th/0105305].
- [49] J. de Boer, R. Dijkgraaf, K. Hori, A. Keurentjes, J. Morgan, D. R. Morrison and S. Sethi, “Triples, fluxes, and strings,” *Adv. Theor. Math. Phys.* **4**, 995 (2002) [arXiv:hep-th/0103170].
- [50] J. de Boer, “The holographic renormalization group,” *Fortsch. Phys.* **49**, 339 (2001) [arXiv:hep-th/0101026].
- [51] V. Balasubramanian, J. de Boer, E. Keski-Vakkuri and S. F. Ross, “Supersymmetric conical defects: Towards a string theoretic description

- of black hole formation,” Phys. Rev. D **64**, 064011 (2001) [arXiv:hep-th/0011217].
- [52] J. de Boer, M. B. Halpern and C. Park, “Construction of all WZW orbifold actions,” arXiv:hep-th/0010036.
- [53] J. de Boer, “String theory on AdS backgrounds,” Class. Quant. Grav. **17**, 1027 (2000).
- [54] J. de Boer, E. P. Verlinde and H. L. Verlinde, “On the holographic renormalization group,” JHEP **0008**, 003 (2000) [arXiv:hep-th/9912012].
- [55] J. de Boer, B. Peeters, K. Skenderis and P. van Nieuwenhuizen, “New Feynman rules for quantum mechanical nonlinear sigma models,” *Prepared for International Europhysics Conference on High-energy Physics (HEP 95), Brussels, Belgium, 27 Jul - 2 Aug 1995*
- [56] J. de Boer, J. Evslin, M. B. Halpern and J. E. Wang, “New duality transformations in orbifold theory,” Int. J. Mod. Phys. A **15**, 1297 (2000) [arXiv:hep-th/9908187].
- [57] J. de Boer and S. L. Shatashvili, “Two-dimensional conformal field theories on AdS(2d+1) backgrounds,” JHEP **9906**, 013 (1999) [arXiv:hep-th/9905032].
- [58] J. de Boer, A. Pasquinucci and K. Skenderis, “AdS/CFT dualities involving large 2d $N = 4$ superconformal symmetry,” Adv. Theor. Math. Phys. **3**, 577 (1999) [arXiv:hep-th/9904073].
- [59] J. de Boer, “Large N Elliptic Genus and AdS/CFT Correspondence,” JHEP **9905**, 017 (1999) [arXiv:hep-th/9812240].
- [60] J. de Boer, H. Ooguri, H. Robins and J. Tannenhauser, “String theory on AdS(3),” JHEP **9812**, 026 (1998) [arXiv:hep-th/9812046].
- [61] J. de Boer, “Six-dimensional supergravity on $S^{*3} \times \text{AdS}(3)$ and 2d conformal field theory,” Nucl. Phys. B **548**, 139 (1999) [arXiv:hep-th/9806104].

- [62] J. De Boer and M. B. Halpern, “Conformal field theories: From old to new,” *Theor. Math. Phys.* **117**, 1286 (1998) [*Teor. Mat. Fiz.* **117**, 221 (1998)] [arXiv:hep-th/9802079].
- [63] J. de Boer and M. B. Halpern, “New spin-two gauged sigma models and general conformal field theory,” *Int. J. Mod. Phys. A* **13**, 4487 (1998) [arXiv:hep-th/9802022].
- [64] J. de Boer, K. Hori and H. Ooguri, “Membrane scattering in curved space with M-momentum transfer,” *Nucl. Phys. B* **525**, 257 (1998) [arXiv:hep-th/9802005].
- [65] J. de Boer, K. Hori, H. Ooguri and Y. Oz, “Branes and dynamical supersymmetry breaking,” *Nucl. Phys. B* **522**, 20 (1998) [arXiv:hep-th/9801060].
- [66] J. de Boer, K. Hori, H. Ooguri and Y. Oz, “Kähler potential and higher derivative terms from M theory five-brane,” *Nucl. Phys. B* **518**, 173 (1998) [arXiv:hep-th/9711143].
- [67] J. de Boer and M. B. Halpern, “Unification of the general non-linear sigma model and the Virasoro master equation,” arXiv:hep-th/9708050.
- [68] J. de Boer and Y. Oz, “Monopole condensation and confining phase of $N = 1$ gauge theories via M-theory fivebrane,” *Nucl. Phys. B* **511**, 155 (1998) [arXiv:hep-th/9708044].
- [69] J. de Boer, K. Hori, Y. Oz and Z. Yin, “Branes and mirror symmetry in $N = 2$ supersymmetric gauge theories in three dimensions,” *Nucl. Phys. B* **502**, 107 (1997) [arXiv:hep-th/9702154].
- [70] J. de Boer and K. Skenderis, “Self-dual supergravity from $N = 2$ strings,” *Nucl. Phys. B* **500**, 192 (1997) [arXiv:hep-th/9704040].
- [71] J. de Boer, K. Hori and Y. Oz, “Dynamics of $N = 2$ supersymmetric gauge theories in three dimensions,” *Nucl. Phys. B* **500**, 163 (1997) [arXiv:hep-th/9703100].

- [72] J. de Boer, K. Hori, H. Ooguri, Y. Oz and Z. Yin, “Mirror symmetry in three-dimensional gauge theories, $SL(2, \mathbb{Z})$ and D-brane moduli spaces,” Nucl. Phys. B **493**, 148 (1997) [arXiv:hep-th/9612131].
- [73] J. de Boer and L. Feher, “Wakimoto realizations of current algebras: An explicit construction,” Commun. Math. Phys. **189**, 759 (1997) [arXiv:hep-th/9611083].
- [74] J. de Boer, K. Hori, H. Ooguri and Y. Oz, “Mirror symmetry in three-dimensional gauge theories, quivers and Nucl. Phys. B **493**, 101 (1997) [arXiv:hep-th/9611063].
- [75] J. de Boer and K. Skenderis, “Target space supersymmetric sigma model techniques,” arXiv:hep-th/9611066.
- [76] J. de Boer and K. Skenderis, “Covariant computation of the low energy effective action of the heterotic Nucl. Phys. B **481**, 129 (1996) [arXiv:hep-th/9608078].
- [77] J. de Boer and T. Tjin, “Finite W Algebras and Applications,” ITP-SB-95-33, in “ W -algebras: extended conformal symmetries,” comptes-rendus, eds. R. Grimm and V. Ovsienko, Marseille, July 3-7, 1995, CPT-95/P.3268.
- [78] J. de Boer, “Some Geometrical Aspects of W Algebras in String Theory,” ITP-SB-95-34, in “ W -algebras: extended conformal symmetries,” comptes-rendus, eds. R. Grimm and V. Ovsienko, Marseille, July 3-7, 1995, CPT-95/P.3268.
- [79] J. de Boer and M. B. Halpern, “Unified Einstein-Virasoro master equation in the general non-linear sigma Int. J. Mod. Phys. A **12**, 1551 (1997) [arXiv:hep-th/9606025].
- [80] J. de Boer and L. Feher, “An explicit construction of Wakimoto realizations of current algebras,” Mod. Phys. Lett. A **11**, 1999 (1996) [arXiv:hep-th/9605102].
- [81] J. de Boer, B. Peeters, K. Skenderis and P. van Nieuwenhuizen, “The equivalence between the operator approach and the path integral approach for quantum mechanical nonlinear sigma models,” arXiv:hep-th/9511141.

- [82] J. de Boer, K. Skenderis, P. van Nieuwenhuizen and A. Waldron, “On the renormalizability and unitarity of the Curci-Ferrari model for massive vector bosons,” *Phys. Lett. B* **367**, 175 (1996) [arXiv:hep-th/9510167].
- [83] J. de Boer, B. Peeters, K. Skenderis and P. van Nieuwenhuizen, “Loop calculations in quantum-mechanical non-linear sigma models sigma models with fermions and applications to anomalies,” *Nucl. Phys. B* **459**, 631 (1996) [arXiv:hep-th/9509158].
- [84] J. De Boer, B. Peeters, K. Skenderis and P. Van Nieuwenhuizen, “Loop Calculations In Quantum Mechanical Nonlinear Sigma Models,” *Nucl. Phys. B* **446**, 211 (1995) [arXiv:hep-th/9504097].
- [85] J. de Boer and A. Schadschneider, “Exact Ground States of Generalized Hubbard Models,” *Phys. Rev. Lett.* **75** (1995) 4298-4301.
- [86] J. de Boer, B. Derrida, H. Flyvbjerg, A. D. Jackson and T. Wettig, “Simple Model of Self-Organized Biological Evolution,” *Phys. Rev. Lett.* **73** (1994) 906-909.
- [87] J. de Boer, A. D. Jackson and T. Wettig, “Criticality in Simple Models of Evolution,” *Phys. Rev.* **E51** (1995) 1059-1074.
- [88] J. de Boer, V. Korepin and A. Schadschneider, “ η -Pairing as a Mechanism of Superconductivity in Models of Strongly Correlated Electrons,” *Phys. Rev. Lett.* **74** (1995) 789-792.
- [89] J. de Boer, F. Harmsze and T. Tjin, “Nonlinear finite W symmetries and applications in elementary systems,” *Phys. Rept.* **272**, 139 (1996) [arXiv:hep-th/9503161].
- [90] E. Bergshoeff, J. de Boer, M. de Roo and T. Tjin, “On the cohomology of the noncritical W string,” *Nucl. Phys. B* **420**, 379 (1994) [arXiv:hep-th/9312185].
- [91] J. F. Marko, G. T. Barkema and J. de Boer, “Transient and Asymptotic Domain Growth in the 3D Ising Model with Conserved Spin,” *Europhys. Lett.* **26** (1994) 653-658.

- [92] J. de Boer, K. Clubok and M. B. Halpern, “Linearized form of the generic affine Virasoro action,” *Int. J. Mod. Phys. A* **9**, 2451 (1994) [arXiv:hep-th/9312094].
- [93] J. de Boer, L. Feher and A. Honecker, “A Class of W algebras with infinitely generated classical limit,” *Nucl. Phys. B* **420**, 409 (1994) [arXiv:hep-th/9312049].
- [94] J. de Boer, “Extended Conformal Symmetry In Noncritical String Theory,”
- [95] J. de Boer and T. Tjin, “The Relation between quantum W algebras and Lie algebras,” *Commun. Math. Phys.* **160**, 317 (1994) [arXiv:hep-th/9302006].
- [96] J. de Boer and J. Goeree, “KPZ analysis for $W(3)$ gravity,” *Nucl. Phys. B* **405**, 669 (1993) [arXiv:hep-th/9211108].
- [97] J. de Boer and J. Goeree, “The Effective action of $W(3)$ gravity to all orders,” *Nucl. Phys. B* **401**, 348 (1993) [arXiv:hep-th/9211107].
- [98] J. de Boer and T. Tjin, “Quantization And Representation Theory Of Finite W Algebras,” *Commun. Math. Phys.* **158**, 485 (1993) [arXiv:hep-th/9211109].
- [99] G. T. Barkema and J. de Boer, “Properties of a Statistical Model of Ice at Low Temperatures,” *J. Chem. Phys.* **99** (1993) 2059-2067.
- [100] F. A. Bais, T. Tjin, P. van Driel, J. De Boer and J. Goeree, “ W algebras, W gravities and their moduli spaces,” in *Proceedings of Trieste Summer School on High Energy Physics and Cosmology, Trieste, Italy, 15 June - 3 July 1992* [arXiv:hep-th/9210004].
- [101] J. De Boer and J. Goeree, “Covariant W gravity and its moduli space from gauge theory,” *Nucl. Phys. B* **401**, 369 (1993) [arXiv:hep-th/9206098].
- [102] J. de Boer and J. Goeree, “ W gravity from Chern-Simons theory,” *Nucl. Phys. B* **381**, 329 (1992) [arXiv:hep-th/9112060].

- [103] J. de Boer and J. Goeree, “The Covariant $W(3)$ action,” *Phys. Lett. B* **274**, 289 (1992) [arXiv:hep-th/9110073].
- [104] G. Barkema and J. de Boer, “Numerical study of phase transitions in Potts models,” *Phys. Rev.* **A44**, (1991) 8000-8005.
- [105] J. de Boer, “Multimatrix models and the KP hierarchy,” *Nucl. Phys. B* **366**, 602 (1991).
- [106] J. De Boer and J. Goeree, “Markov traces and $II(1)$ factors in conformal field theory,” *Commun. Math. Phys.* **139**, 267 (1991).