

# hep-th 文献リスト

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## References

- [ABB<sup>+</sup>22] L. Apolo, A. Belin, S. Bintanja, A. Castro, and C. A. Keller, *Deforming Symmetric Product Orbifolds: A tale of moduli and higher spin currents*, [arXiv:2204.07590 \[hep-th\]](#).
- [ACC22] D. Andriot, N. Carqueville, and N. Cribiori, *Looking for structure in the cobordism conjecture*, [arXiv:2204.00021 \[hep-th\]](#).
- [ACH22] R. Arouca, A. Cappelli, and T. H. Hansson, *Quantum field theory anomalies in condensed matter physics*, 4 2022. [arXiv:2204.02158 \[cond-mat.str-el\]](#).
- [ACO<sup>+</sup>22] A. Anabalón, P. Concha, J. Oliva, C. Quijada, and E. Rodríguez, *Phase transitions for charged planar solitons in AdS*, [arXiv:2205.01609 \[hep-th\]](#).
- [AFK<sup>+</sup>22] S. Alexandrov, A. H. Firat, M. Kim, A. Sen, and B. Stefański, *D-instanton Induced Superpotential*, [arXiv:2204.02981 \[hep-th\]](#).
- [AGT09] L. F. Alday, D. Gaiotto, and Y. Tachikawa, *Liouville Correlation Functions from Four-dimensional Gauge Theories*, *Lett. Math. Phys.* **91** (2010) 167–197, [arXiv:0906.3219 \[hep-th\]](#).
- [AJ22] N. Agia and D. L. Jafferis, *Angular Quantization in CFT*, [arXiv:2204.11872 \[hep-th\]](#).
- [AKG22] M. Arzano and J. Kowalski-Glikman, *A group theoretic description of the  $\kappa$ -Poincaré Hopf algebra*, [arXiv:2204.09394 \[hep-th\]](#).
- [Akh21] S. Akhtar, *Knot Invariants and Topological Quantum Field Theory*, [arXiv:2112.13643 \[hep-th\]](#).
- [AKR<sup>+</sup>22] I. Akal, T. Kawamoto, S.-M. Ruan, T. Takayanagi, and Z. Wei, *Zoo of holographic moving mirrors*, [arXiv:2205.02663 \[hep-th\]](#).
- [ALVV22] R. L. P. G. Amaral, V. E. R. Lemes, O. S. Ventura, and L. C. Q. Vilar, *A BRST view of the spontaneous symmetry breaking*, [arXiv:2205.02903 \[hep-th\]](#).
- [Amb22] J. Ambjorn, *Elementary Quantum Geometry*, [arXiv:2204.00859 \[hep-th\]](#).
- [AMR22] P. C. Argyres, M. Martone, and M. Ray, *Dirac pairings, one-form symmetries and Seiberg-Witten geometries*, [arXiv:2204.09682 \[hep-th\]](#).
- [AT22] S. K. Ashok and J. Troost, *Path Integrals on  $sl(2, R)$  Orbits*, [arXiv:2204.00232 \[hep-th\]](#).
- [BBSNT22] L. Bhardwaj, L. Bottini, S. Schafer-Nameki, and A. Tiwari, *Non-Invertible Higher-Categorical Symmetries*, [arXiv:2204.06564 \[hep-th\]](#).
- [BCM22] V. Benedetti, H. Casini, and J. M. Magan, *Generalized symmetries and Noether’s theorem in QFT*, [arXiv:2205.03412 \[hep-th\]](#).
- [BDLV22] C. Bonanno, M. D’Elia, B. Lucini, and D. Vadacchino, *Towards glueball masses of large- $NSU(N)$  pure-gauge theories without topological freezing*, [arXiv:2205.06190 \[hep-lat\]](#).
- [BEHK22] B. Berche, T. Ellis, Y. Holovatch, and R. Kenna, *Phase transitions above the upper critical dimension*, 2022. <https://arxiv.org/abs/2204.04761>.
- [BH12] M. Blagojevic and F. W. Hehl, *Gauge Theories of Gravitation*, [arXiv:1210.3775 \[gr-qc\]](#).
- [BHHH22] J. Bao, Y.-H. He, E. Heyes, and E. Hirst, *Machine learning algebraic geometry for physics*, 4 2022. [arXiv:2204.10334 \[hep-th\]](#).
- [BK06] S. Bellucci and S. Krivonos, *Supersymmetric mechanics in superspace*, *Lect. Notes Phys.* **698** (2006) 49–96, [arXiv:hep-th/0602199](#).
- [BK22a] N. Bhoja and K. Krasnov, *Notes on Spinors and Polyforms I: General Case*, [arXiv:2205.04866 \[math-ph\]](#).
- [BK22b] ———, *Notes on Spinors and Polyforms II: Quaternions and Octonions*, [arXiv:2205.05447 \[math-ph\]](#).
- [BL19] L. Bianchi and M. Lemos, *Superconformal surfaces in four dimensions*, *JHEP* **06** (2020) 056, [arXiv:1911.05082 \[hep-th\]](#).
- [Bli22] G. Bliard, *Notes on  $n$ -point Witten diagrams in  $AdS_2$* , [arXiv:2204.01659 \[hep-th\]](#).
- [BMMW22] I. Bena, E. J. Martinec, S. D. Mathur, and N. P. Warner, *Fuzzballs and Microstate Geometries: Black-Hole Structure in String Theory*, [arXiv:2204.13113 \[hep-th\]](#).
- [BMY22] L. Buoninfante, Y. Miyashita, and M. Yamaguchi, *Undecidable problems in quantum field theory*, 2022. <https://arxiv.org/abs/2203.16689>.

- [BO22] V. Baules and N. Okada, *Experimentally distinguishable origin for electroweak symmetry breaking*, [arXiv:2204.10265 \[hep-ph\]](#).
- [Bou21] J.-E. Bourguine, *Engineering  $3D \mathcal{N} = 2$  theories using the quantum affine  $\mathfrak{sl}(2)$  algebra*, [arXiv:2107.10063 \[hep-th\]](#).
- [Bou22] ———, *Shifted quantum groups and matter multiplets in supersymmetric gauge theories*, [arXiv:2205.01309 \[hep-th\]](#).
- [BS22] Y. Boujakhrout and E. H. Saidi, *On Exceptional 't Hooft Lines in 4D-Chern-Simons Theory*, [arXiv:2204.12424 \[hep-th\]](#).
- [BT17] L. Bhardwaj and Y. Tachikawa, *On finite symmetries and their gauging in two dimensions*, *JHEP* **03** (2018) 189, [arXiv:1704.02330 \[hep-th\]](#).
- [CCH<sup>+</sup>22] Y. Choi, C. Cordova, P.-S. Hsin, H. T. Lam, and S.-H. Shao, *Non-invertible Condensation, Duality, and Triality Defects in 3+1 Dimensions*, [arXiv:2204.09025 \[hep-th\]](#).
- [CH22] D. Chicherin and J. Henn, *Pentagon Wilson loop with Lagrangian insertion at two loops in  $\mathcal{N} = 4$  super Yang-Mills theory*, [arXiv:2204.00329 \[hep-th\]](#).
- [Cha22] P. Chattopadhyay, *Aspects of self-dual Yang-Mills and self-dual gravity*, Other thesis, 5 2022. [arXiv:2205.03675 \[hep-th\]](#).
- [CHST22] M. Cvetič, J. Halverson, G. Shiu, and W. Taylor, *Snowmass White Paper: String Theory and Particle Physics*, [arXiv:2204.01742 \[hep-th\]](#).
- [CJM20] L. Carbone, E. Jurisich, and S. H. Murray, *Constructing a Lie group analog for the Monster Lie algebra*, [arXiv:2002.06658 \[math.RT\]](#).
- [CKS94] F. Cooper, A. Khare, and U. Sukhatme, *Supersymmetry and quantum mechanics*, *Phys. Rept.* **251** (1995) 267–385, [arXiv:hep-th/9405029](#).
- [CL22] P. Caputa and S. Liu, *Quantum complexity and topological phases of matter*, [arXiv:2205.05688 \[hep-th\]](#).
- [CLS22] Y. Choi, H. T. Lam, and S.-H. Shao, *Non-invertible Global Symmetries in the Standard Model*, [arXiv:2205.05086 \[hep-th\]](#).
- [CM22] J. a. G. F. Campos and A. Mohammadi, *Kink-antikink collision in the supersymmetric  $\phi^4$  model*, [arXiv:2205.06869 \[hep-th\]](#).
- [CO22a] Y. Choi and K. Ohmori, *Higher Berry Phase of Fermions and Index Theorem*, [arXiv:2205.02188 \[hep-th\]](#).
- [CO22b] C. Cordova and K. Ohmori, *Non-Invertible Chiral Symmetry and Exponential Hierarchies*, [arXiv:2205.06243 \[hep-th\]](#).
- [CQSV22a] C. Crinò, F. Quevedo, A. Schachner, and R. Valandro, *A Database of Calabi-Yau Orientifolds and the Size of D3-Tadpoles*, [arXiv:2204.13115 \[hep-th\]](#).
- [CQSV22b] ———, *A Database of Calabi-Yau Orientifolds and the Size of D3-Tadpoles*, [arXiv:2204.13115 \[hep-th\]](#).
- [DCLM22] O. M. Del Cima, L. S. Lima, and E. S. Miranda, *The spectrum consistency of fractional quantum Hall effect model*, [arXiv:2204.02534 \[hep-th\]](#).
- [dFLNU04] T. de Fernex, E. Lupercio, T. Nevins, and B. Uribe, *A Localization principle for orbifold theories*, [arXiv:hep-th/0411037](#).
- [DGB22] D. Dilley, A. Gonzales, and M. Byrd, *Identifying Quantum Correlations Using Explicit  $SO(3)$  to  $SU(2)$  Maps*, [arXiv:2205.02989 \[quant-ph\]](#).
- [DHVW85] L. J. Dixon, J. A. Harvey, C. Vafa, and E. Witten, *Strings on Orbifolds*, *Nucl. Phys. B* **261** (1985) 678–686.
- [DHVW86] ———, *Strings on Orbifolds. 2.*, *Nucl. Phys. B* **274** (1986) 285–314.
- [EFSS22] S. Ebert, C. Ferko, H.-Y. Sun, and Z. Sun,  *$TT$  Deformations of Supersymmetric Quantum Mechanics*, [arXiv:2204.05897 \[hep-th\]](#).
- [EOT10] T. Eguchi, H. Ooguri, and Y. Tachikawa, *Notes on the K3 Surface and the Mathieu group  $M_{24}$* , *Exper. Math.* **20** (2011) 91–96, [arXiv:1004.0956 \[hep-th\]](#).
- [FGR97] J. Frohlich, O. Grandjean, and A. Recknagel, *Supersymmetric quantum theory, noncommutative geometry, and gravitation*, NATO Advanced Study Institute: Les Houches Summer School on Theoretical Physics, Session 64: Quantum Symmetries, 8 1995, pp. 221–385. [arXiv:hep-th/9706132](#).
- [FJ22] L. Feher and B. Juhasz, *A note on quadratic Poisson brackets on  $\mathfrak{gl}(n, \mathbb{R})$  related to Toda lattices*, [arXiv:2204.02077 \[math-ph\]](#).
- [FK20] M. Futaki and H. Kajiura, *Homological mirror symmetry of  $\mathbb{CP}^n$  and their products via Morse homotopy*, *J. Math. Phys.* **62** (2021) 032307, [arXiv:2008.13462 \[math.SG\]](#).
- [FS22] C. D. Fosco and F. A. Schaposnik, *Induced Chern-Simons term by dimensional reduction*, [arXiv:2204.01453 \[hep-th\]](#).
- [FU22] K. Fujikawa and K. Umetsu, *A path integral derivation of the equations of anomalous Hall effect*, [arXiv:2201.01104 \[cond-mat.str-el\]](#).
- [Gar22a] N. Garner, *Vertex Operator Algebras and Topologically Twisted Chern-Simons-Matter Theories*, [arXiv:2204.02991 \[hep-th\]](#).
- [Gar22b] ———, *Twisted Formalism for 3d  $\mathcal{N} = 4$  Theories*, [arXiv:2204.02997 \[hep-th\]](#).

- [GDMBVn22] J. F. B. G., B. Díaz, J. Margalef-Bentabol, and E. J. S. Villaseñor, *Edge observables of the Maxwell-Chern-Simons theory*, [arXiv:2204.06073 \[hep-th\]](#).
- [GFRT20] M. Garcia-Fernandez, R. Rubio, and C. Tipler, *Gauge theory for string algebroids*, [arXiv:2004.11399 \[math.DG\]](#).
- [GHSS20] S. J. Gates, G. Hannon, R. X. Siew, and K. Stiffler, *Infinite-Dimensional Algebraic  $\mathfrak{Spin}(N)$  Structure in Extended/Higher Dimensional SUSY Holonomy for Valise and On-Shell Supermultiplet Representations*, [arXiv:2010.06124 \[hep-th\]](#).
- [GJF19] D. Gaiotto and T. Johnson-Freyd, *Condensations in higher categories*, [arXiv:1905.09566 \[math.CT\]](#).
- [GJKM22] C. J. Grewcoe, L. Jonke, T. Kodzoman, and G. Manolakos, *From Hopf algebra to braided  $L_\infty$ -algebra*, [arXiv:2204.01352 \[hep-th\]](#).
- [GLTT22] F. Girelli, M. Laudonio, A. Tanasa, and P. Tsimiklis, *Group field theory on 2-groups*, [arXiv:2205.05837 \[hep-th\]](#).
- [GMSZ20] W. Gu, L. Mihalcea, E. Sharpe, and H. Zou, *Quantum K theory of symplectic Grassmannians*, [arXiv:2008.04909 \[hep-th\]](#).
- [GMW15] D. Gaiotto, G. W. Moore, and E. Witten, *Algebra of the Infrared: String Field Theoretic Structures in Massive  $\mathcal{N} = (2, 2)$  Field Theory In Two Dimensions*, [arXiv:1506.04087 \[hep-th\]](#).
- [GNT08] D. Gaiotto, A. Neitzke, and Y. Tachikawa, *Argyres-Seiberg duality and the Higgs branch*, *Commun. Math. Phys.* **294** (2010) 389–410, [arXiv:0810.4541 \[hep-th\]](#).
- [Gom22] A. H. Gomes, *Deformations of the canonical commutation relation and Lorentz symmetry violation*, [arXiv:2205.02044 \[hep-th\]](#).
- [GP22] N. Garner and N. M. Paquette, *TASI Lectures on the Mathematics of String Dualities*, [arXiv:2204.01914 \[hep-th\]](#).
- [GRT22] E. Guadagnini, F. Rottoli, and F. Thuillier, *Gauge fixing and metric independence in topological quantum theories*, [arXiv:2205.03875 \[hep-th\]](#).
- [He20] S. He, *Note on higher-point correlation functions of the  $T\bar{T}$  or  $J\bar{T}$  deformed CFTs*, *Sci. China Phys. Mech. Astron.* **64** (2021) 291011, [arXiv:2012.06202 \[hep-th\]](#).
- [HKP22] H. Hessam, M. Khalkhali, and N. Pagliaroli, *From Noncommutative Geometry to Random Matrix Theory*, [arXiv:2204.14216 \[hep-th\]](#).
- [HLL<sup>+</sup>22] J. J. Heckman, C. Lawrie, L. Lin, H. Y. Zhang, and G. Zoccarato, *6d SCFTs, Center-Flavor Symmetries, and Stiefel–Whitney Compactifications*, [arXiv:2205.03411 \[hep-th\]](#).
- [HLW22] M.-x. Huang, K. Lee, and X. Wang, *Topological strings and Wilson loops*, [arXiv:2205.02366 \[hep-th\]](#).
- [HM22] H. S. Hannesdottir and S. Mizera, *What is the  $i\epsilon$  for the S-matrix?*, [arXiv:2204.02988 \[hep-th\]](#).
- [HMA21] A. Hajibarat, B. Mirza, and A. Azizollahi,  *$\gamma$ -Metrics in higher dimensions*, *Nucl. Phys. B* **978** (2022) 115739, [arXiv:2110.06667 \[gr-qc\]](#).
- [HMW21] K. Hersent, P. Mathieu, and J.-C. Wallet, *Algebraic structures in  $\kappa$ -Poincaré invariant gauge theories*, *Int. J. Geom. Meth. Mod. Phys.* **19** (2022) 2250078, [arXiv:2110.10763 \[hep-th\]](#).
- [HS16] P.-S. Hsin and N. Seiberg, *Level/rank Duality and Chern-Simons-Matter Theories*, *JHEP* **09** (2016) 095, [arXiv:1607.07457 \[hep-th\]](#).
- [HS22] J. Huxford and S. H. Simon, *Excitations in the Higher Lattice Gauge Theory Model for Topological Phases I: Overview*, [arXiv:2202.08294 \[cond-mat.str-el\]](#).
- [HTY20] C.-T. Hsieh, Y. Tachikawa, and K. Yonekura, *Anomaly Inflow and p-Form Gauge Theories*, *Commun. Math. Phys.* **391** (2022) 495–608, [arXiv:2003.11550 \[hep-th\]](#).
- [ISSU22] T. Inoue, M. Sakamoto, M. Sato, and I. Ueba, *Correspondence of topological classification between quantum graph extra dimension and topological matter*, [arXiv:2204.03834 \[hep-th\]](#).
- [Kay22] B. S. Kay, *A product picture for quantum electrodynamics*, [arXiv:2204.01177 \[hep-th\]](#).
- [Kim21] Y. Kimura, *Path integrals in JT gravity and Virasoro constraints*, [arXiv:2106.11856 \[hep-th\]](#).
- [KLS22] S. Krivonos, O. Lechtenfeld, and A. Sutulin, *Integrability of supersymmetric Calogero-Moser models*, [arXiv:2204.02692 \[hep-th\]](#).
- [KNO22] T. Kugo, R. Nakayama, and N. Ohta, *Covariant BRST Quantization of Unimodular Gravity II – Formulation with a vector antighost –*, [arXiv:2202.10740 \[hep-th\]](#).
- [KO22] O. Kidwai and K. Osuga, *Quantum curves from refined topological recursion: the genus 0 case*, [arXiv:2204.12431 \[math.AG\]](#).
- [KOZ21] J. Kaidi, K. Ohmori, and Y. Zheng, *Kramers-Wannier-like Duality Defects in (3+1)D Gauge Theories*, *Phys. Rev. Lett.* **128** (2022) 111601, [arXiv:2111.01141 \[hep-th\]](#).
- [KP22] T. Kimura and S. Purkayastha, *Classical group matrix models and universal criticality*, [arXiv:2205.01236 \[hep-th\]](#).
- [KPrR22] M. Kruczenski, J. Penedones, and B. C. van Rees, *Snowmass White Paper: S-matrix Bootstrap*, [arXiv:2203.02421 \[hep-th\]](#).
- [KS22] D. B. Kaplan and S. Sen, *Generalized Hall currents in topological insulators and superconductors*, [arXiv:2205.05707 \[cond-mat.str-el\]](#).
- [KT11] H. Kanno and Y. Tachikawa, *Instanton counting with a surface operator and the chain-saw quiver*, *JHEP* **06** (2011) 119, [arXiv:1105.0357 \[hep-th\]](#).

- [KW14] L. Kong and X.-G. Wen, *Braided fusion categories, gravitational anomalies, and the mathematical framework for topological orders in any dimensions*, [arXiv:1405.5858 \[cond-mat.str-el\]](#).
- [KY21] N. Kubo and S. Yokoyama, *Topological phase, spin Chern-Simons theory and level rank duality on lens space*, *JHEP* **04** (2022) 074, [arXiv:2108.09300 \[hep-th\]](#).
- [KZ20] A. Kovtun and M. Zantedeschi, *Breaking BEC: the fast and the quantum*, [arXiv:2008.02187 \[hep-th\]](#).
- [KZ22] L. Kong and Z.-H. Zhang, *An invitation to topological orders and category theory*, [arXiv:2205.05565 \[cond-mat.str-el\]](#).
- [KZZ22] J. Kaidi, G. Zafrir, and Y. Zheng, *Non-Invertible Symmetries of  $\mathcal{N} = 4$  SYM and Twisted Compactification*, [arXiv:2205.01104 \[hep-th\]](#).
- [LF20] B. Le Floch, *A slow review of the AGT correspondence*, [arXiv:2006.14025 \[hep-th\]](#).
- [Li21] W. Li, *Ising model close to  $d = 2$* , [arXiv:2107.13679 \[hep-th\]](#).
- [LL22] A. Losev and V. Lysov, *Tropical Mirror*, [arXiv:2204.06896 \[hep-th\]](#).
- [LOSS22] L. M. Lawson, P. K. Osei, K. Sodoga, and F. Soglohu, *Path integral in position-deformed Heisenberg algebra with strong quantum gravitational measurement*, [arXiv:2204.14122 \[hep-th\]](#).
- [LS20] Y. Liu and Y.-W. Sun, *Topological hydrodynamic modes and holography*, *Phys. Rev. D* **105** (2022) 086017, [arXiv:2005.02850 \[hep-th\]](#).
- [LU06] E. Lupercio and B. Uribe, *Topological quantum field theories, strings, and orbifolds*, [arXiv:hep-th/0605255](#).
- [Miy22] Y. Miyakawa, *Axial anomaly in the gradient flow exact renormalization group*, [arXiv:2201.08181 \[hep-th\]](#).
- [MMR22] M. Marino, R. Miravitllas, and T. Reis, *Instantons, renormalons and the theta angle in integrable sigma models*, [arXiv:2205.04495 \[hep-th\]](#).
- [MT11] G. W. Moore and Y. Tachikawa, *On 2d TQFTs whose values are holomorphic symplectic varieties*, *Proc. Symp. Pure Math.* **85** (2012) 191–208, [arXiv:1106.5698 \[hep-th\]](#).
- [Mur22] Y. Murakami, *Witten-Reshetikhin-Turaev invariants and homological blocks for plumbed homology spheres*, [arXiv:2205.01282 \[math.GT\]](#).
- [NO22] K. Nakajima and K. Okunishi, *Angular-time evolution for the Affleck-Kennedy-Lieb-Tasaki chain and its edge-state dynamics*, [arXiv:2205.06428 \[cond-mat.stat-mech\]](#).
- [Noe0d] E. Noether, *Invariant variation problems*, *Transport Theory and Statistical Physics* **1** (1971) 186–207, <https://doi.org/10.1080/00411457108231446>.
- [NOS22] T. Nishioka, Y. Okuyama, and S. Shimamori, *Method of images in defect conformal field theories*, [arXiv:2205.05370 \[hep-th\]](#).
- [NY21] K. Nunotani and Z. Yoshida, *Clebsch representation of relativistic plasma and generalized enstrophy*, 2021. [arXiv:2109.09886 \[math-ph\]](#).
- [Obu22] V. V. Obukhov, *Maxwell's equations in homogeneous spaces for admissible electromagnetic fields*, [arXiv:2204.07031 \[gr-qc\]](#).
- [OS17] P. Oak and B. Sathiapalan, *Exact Renormalization Group and Sine Gordon Theory*, *JHEP* **07** (2017) 103, [arXiv:1703.01591 \[hep-th\]](#). [Erratum: *JHEP* **09**, 077 (2017)].
- [Osu21] K. Osuga, *Super Topological Recursion and Gaiotto Vectors For Superconformal Blocks*, *Lett. Math. Phys.* **112** (2022) 48, [arXiv:2107.04588 \[math-ph\]](#).
- [OV22] E. Olivucci and P. Vieira, *Stampedes II: Null Polygons in Conformal Gauge Theory*, [arXiv:2205.04476 \[hep-th\]](#).
- [OW22] H. Ouyang and J.-B. Wu, *Fermionic bogomolnyi-prasad-sommerfield wilson loops in four-dimensional  $\mathcal{N} = 2$  superconformal gauge theories*, [arXiv:2205.01348 \[hep-th\]](#).
- [Pav22] M. Pavšič, *A New Perspective on Quantum Field Theory Revealing Possible Existence of Another Kind of Fermions Forming Dark Matter*, [arXiv:2205.02787 \[physics.gen-ph\]](#).
- [PR22] A. Podo and F. Revello, *Integer solutions to the anomaly equations for a class of chiral gauge theories*, [arXiv:2205.03428 \[hep-th\]](#).
- [PRSV22] T. Pantev, D. Robbins, E. Sharpe, and T. Vandermeulen, *Orbifolds by 2-groups and decomposition*, [arXiv:2204.13708 \[hep-th\]](#).
- [PSD22] D. Poland and D. Simmons-Duffin, *Snowmass White Paper: The Numerical Conformal Bootstrap*, 2022 Snowmass Summer Study, 3 2022. [arXiv:2203.08117 \[hep-th\]](#).
- [Qn22] J. C. V. Quiñones, *A unified field theory from a complexified quaternion-octonion Dirac equation*, [arXiv:2205.06657 \[physics.gen-ph\]](#).
- [RM22] A. K. Rao and R. P. Malik, *Nilpotent Symmetries of a Modified Massive Abelian 3-Form Theory: Augmented Superfield Approach*, [arXiv:2204.04683 \[hep-th\]](#).
- [RS22] S. Ramgoolam and E. Sharpe, *Combinatoric topological string theories and group theory algorithms*, [arXiv:2204.02266 \[hep-th\]](#).
- [RSS22] K. Roumpedakis, S. Seifnashri, and S.-H. Shao, *Higher Gauging and Non-invertible Condensation Defects*, [arXiv:2204.02407 \[hep-th\]](#).
- [Rua00] Y. Ruan, *Stringy geometry and topology of orbifolds*, [arXiv:math/0011149](#).
- [Rua02] Y.-b. Ruan, *Stringy orbifolds*, [arXiv:math/0201123](#).



- [Sat21] Y. Sato, *Complexity in a moving mirror model*, *Phys. Rev. D* **105** (2022) 086016, [arXiv:2108.04637 \[hep-th\]](#).
- [Sch92] A. S. Schwarz, *Geometry of Batalin-Vilkovisky quantization*, *Commun. Math. Phys.* **155** (1993) 249–260, [arXiv:hep-th/9205088](#).
- [Sch98] A. Schwarz, *Morita equivalence and duality*, *Nuclear Physics B* **534** (1998) 720–738.
- [Sch22] G. Schmid, *On 3-Dimensional Quantum Gravity and Quasi-Local Holography in Spin Foam Models and Group Field Theory*, Other thesis, 5 2022. [arXiv:2205.05079 \[gr-qc\]](#).
- [Sha19a] E. Sharpe, *Categorical Equivalence and the Renormalization Group*, *Fortsch. Phys.* **67** (2019) 1910019, [arXiv:1903.02880 \[hep-th\]](#).
- [Sha19b] ———, *Undoing decomposition*, *Int. J. Mod. Phys. A* **34** (2020) 1950233, [arXiv:1911.05080 \[hep-th\]](#).
- [Sha21] E. Sharpe, *Topological operators, noninvertible symmetries and decomposition*, [arXiv:2108.13423 \[hep-th\]](#).
- [Sha22] E. Sharpe, *An introduction to decomposition*, [arXiv:2204.09117 \[hep-th\]](#).
- [Sil20] C. Silva, *Spacetime from quantum information: spin networks and the cosmological constant in the AdS/CFT correspondence*, [arXiv:2009.07843 \[gr-qc\]](#).
- [Smi22] A. Smilga, *Comments on noncommutative quantum mechanical systems associated with Lie algebras*, [arXiv:2204.08705 \[hep-th\]](#).
- [Sto22] O. C. Stoica, *The Problem of Irreversible Change in Quantum Mechanics*, [arXiv:2204.02270 \[quant-ph\]](#).
- [Suh21] M. Suh, *Brane-jet stabilities from Janus and Sasaki-Einstein*, [arXiv:2110.14686 \[hep-th\]](#).
- [Suz22] T. Suzuki, *Monopoles of the Dirac type and color confinement in QCD – Gauge invariant mechanism*, [arXiv:2204.11514 \[hep-lat\]](#).
- [SW94a] N. Seiberg and E. Witten, *Electric - magnetic duality, monopole condensation, and confinement in  $N=2$  supersymmetric Yang-Mills theory*, *Nucl. Phys. B* **426** (1994) 19–52, [arXiv:hep-th/9407087](#). [Erratum: *Nucl.Phys.B* 430, 485–486 (1994)].
- [SW94b] ———, *Monopoles, duality and chiral symmetry breaking in  $N=2$  supersymmetric QCD*, *Nucl. Phys. B* **431** (1994) 484–550, [arXiv:hep-th/9408099](#).
- [SW99] N. Seiberg and E. Witten, *String theory and noncommutative geometry*, *JHEP* **09** (1999) 032, [arXiv:hep-th/9908142](#).
- [Tac11] Y. Tachikawa, *A strange relationship between 2d cft and 4d gauge theory*, 2011. <https://arxiv.org/abs/1108.5632>.
- [Tac13] ———,  *$N=2$  supersymmetric dynamics for pedestrians*, 12 2013. [arXiv:1312.2684 \[hep-th\]](#).
- [TLJHG22] J. Toledo, R. Lipinski Jusinskas, C. A. Hernaski, and P. R. S. Gomes, *Quantum Wires, Chern-Simons, and Dualities in the Quantum Hall System*, [arXiv:2205.08488 \[cond-mat.str-el\]](#).
- [Top22] F. Toppan, *First quantization of braided Majorana fermions*, *Nucl. Phys. B* **980** (2022) 115834, [arXiv:2203.01776 \[hep-th\]](#).
- [TT11] Y. Tachikawa and S. Terashima, *Seiberg-Witten Geometries Revisited*, *JHEP* **09** (2011) 010, [arXiv:1108.2315 \[hep-th\]](#).
- [TW21] J. Tian and Y.-N. Wang, *5D and 6D SCFTs from  $\mathbb{C}^3$  orbifolds*, [arXiv:2110.15129 \[hep-th\]](#).
- [TY21] J. Trnkećić and J. You, *Seiberg-Witten maps and scattering amplitudes of NCQED*, [arXiv:2111.04154 \[hep-th\]](#).
- [Vel22] V. N. Velizhanin, *Exact result in  $N=4$  SYM theory: Generalised double-logarithmic equation*, [arXiv:2201.04616 \[hep-th\]](#).
- [VW94] C. Vafa and E. Witten, *A Strong coupling test of  $S$  duality*, *Nucl. Phys. B* **431** (1994) 3–77, [arXiv:hep-th/9408074](#).
- [Wit82] E. Witten, *Constraints on Supersymmetry Breaking*, *Nucl. Phys. B* **202** (1982) 253.
- [Wit88] ———, *Topological Quantum Field Theory*, *Commun. Math. Phys.* **117** (1988) 353.
- [Wit89] ———, *Quantum Field Theory and the Jones Polynomial*, *Commun. Math. Phys.* **121** (1989) 351–399.
- [Wit98] ———, *Anti-de Sitter space and holography*, *Adv. Theor. Math. Phys.* **2** (1998) 253–291, [arXiv:hep-th/9802150](#).
- [Wit00] ———, *Supersymmetric index in four-dimensional gauge theories*, *Adv. Theor. Math. Phys.* **5** (2002) 841–907, [arXiv:hep-th/0006010](#).
- [WWW18] J. Wang, X.-G. Wen, and E. Witten, *A New  $SU(2)$  Anomaly*, *J. Math. Phys.* **60** (2019) 052301, [arXiv:1810.00844 \[hep-th\]](#).
- [Yam22] M. Yamazaki, *Quiver yangians and crystal melting: A concise summary*, 2022. <https://arxiv.org/abs/2203.14314>.
- [YY22a] M. Yamada and K. Yonekura, *Cosmic strings from pure Yang-Mills theory*, [arXiv:2204.13123 \[hep-th\]](#).
- [YY22b] ———, *Cosmic  $F$ - and  $D$ -strings from pure Yang-Mills theory*, [arXiv:2204.13125 \[hep-th\]](#).