

# Kimyeong Lee

## List of Publications by Year in descending order

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docs citations

122  
times ranked

1313  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Bootstrapping fermionic rational CFTs with three characters. Journal of High Energy Physics, 2022, 2022, 1.  | 4.7 | 10        |
| 2  | Elliptic quantum curves of 6d SO(N) theories. Journal of High Energy Physics, 2022, 2022, 1.   | 4.7 | 5         |
| 3  | S-foldings of 5d SCFTs. Journal of High Energy Physics, 2022, 2022, .  | 4.7 | 4         |
| 4  | Higgsing towards E-strings. Journal of High Energy Physics, 2021, 2021, 1.   | 4.7 | 9         |
| 5  | Fermionic rational conformal field theories and modular linear differential equations. Progress of Theoretical and Experimental Physics, 2021, 2021, . | 6.6 | 11        |
| 6  | Cardy limits of 6d superconformal theories. Journal of High Energy Physics, 2021, 2021, 1.   | 4.7 | 9         |
| 7  | Twisted 6d (2, 0) SCFTs on a circle. Journal of High Energy Physics, 2021, 2021, 1.  | 4.7 | 8         |
| 8  | Non-unitary TQFTs from 3D $\mathcal{N} = 4$ rank 0 SCFTs. Journal of High Energy Physics, 2021, 2021, 1.   | 4.7 | 8         |
| 9  | Conformal Field Theories with Sporadic Group Symmetry. Communications in Mathematical Physics, 2021, 388, 1-105.                                       | 2.2 | 9         |
| 10 | Complete prepotential for 5d $\mathcal{N} = 1$ superconformal field theories. Journal of High Energy Physics, 2020, 2020, 1.                           | 4.7 | 25        |
| 11 | Magnetically charged AdS5 black holes from class $\mathcal{S}$ theories on hyperbolic 3-manifolds. Journal of High Energy Physics, 2020, 2020, 1.      | 4.7 | 4         |
| 12 | Higgsing and twisting of 6d DN gauge theories. Journal of High Energy Physics, 2020, 2020, 1.  | 4.7 | 12        |
| 13 | Algebraic surfaces, four-folds and moonshine. Journal of High Energy Physics, 2019, 2019, 1.   | 4.7 | 0         |
| 14 | Monster anatomy. Journal of High Energy Physics, 2019, 2019, 1.  | 4.7 | 8         |
| 15 | Rank-3 antisymmetric matter on 5-brane webs. Journal of High Energy Physics, 2019, 2019, 1.  | 4.7 | 34        |
| 16 | 6d SCFTs, 5d dualities and Tao web diagrams. Journal of High Energy Physics, 2019, 2019, 1.  | 4.7 | 43        |
| 17 | Instantons from blow-up. Journal of High Energy Physics, 2019, 2019, 1.  | 4.7 | 20        |
| 18 | Dualities and 5-brane webs for 5d rank 2 SCFTs. Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 52        |

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|----|--|-----|-----------|
| 19 | On elliptic genera of 6d string theories. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.                                       | 4.7 | 24        |
| 20 | 5-brane webs for 5d $\mathcal{N} = 1$ G2 gauge theories. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.                        | 4.7 | 49        |
| 21 | Localization techniques in quantum field theories. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 440301.       | 2.1 | 154       |
| 22 | Equivalence of several descriptions for 6d SCFT. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.                                | 4.7 | 33        |
| 23 | Indices for 6 dimensional superconformal field theories. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 443017. | 2.1 | 16        |
| 24 | Elliptic genus of E-strings. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.  | 4.7 | 50        |
| 25 | Little strings on $D_n$ orbifolds. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.  | 4.7 | 10        |
| 26 | Discrete theta angle from an O5-plane. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.  | 4.7 | 30        |
| 27 | More on 5d descriptions of 6d SCFTs. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.  | 4.7 | 59        |
| 28 | Little strings and T-duality. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.   | 4.7 | 31        |
| 29 | A new 5d description of 6d D-type minimal conformal matter. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.                     | 4.7 | 66        |
| 30 | Super-Yang-Mills theories on $S^4/\mathbb{Z}_2$ . <i>Journal of High Energy Physics</i> , 2014, 2014, 1.                               | 4.7 | 9         |
| 31 | Supersymmetric M5 brane theories on $R^4/\mathbb{Z}_2$ . <i>Journal of High Energy Physics</i> , 2013, 2013, 1.                        | 4.7 | 35        |
| 32 | Quantum mechanical Hamiltonians with large ground-state degeneracy. <i>Annals of Physics</i> , 2013, 331, 258-268.                     | 2.8 | 0         |
| 33 | Line Operator Index on $S^1/\mathbb{Z}_3$ . <i>Journal of High Energy Physics</i> , 2012, 2012, 1.                                     | 4.7 | 37        |
| 34 | 5-dim superconformal index with enhanced $E_n$ global symmetry. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.                 | 4.7 | 145       |
| 35 | Superconformal index with duality domain wall. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.                                  | 4.7 | 25        |
| 36 | Emergent Schrödinger geometries from mass-deformed CFT. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.                         | 4.7 | 1         |

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|----|--|-----|-----------|
| 37 | On instantons as Kaluza-Klein modes of M5-branes. Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 94        |
| 38 | Instanton partons in 5-dimensional SU(N) gauge theory. Physical Review D, 2011, 84, .  | 4.7 | 11        |
| 39 | 1/4 BPS string junctions and N=3 problem in 6-dimensional (2,0) superconformal theories. Physical Review D, 2011, 84, .  | 4.7 | 5         |
| 40 | 1/2-BPS Wilson loops and vortices in ABJM model. Journal of High Energy Physics, 2010, 2010, 1.  | 4.7 | 39        |
| 41 | BPS magnetic monopole bags. Physical Review D, 2009, 79, .   | 4.7 | 11        |
| 42 | Mass-deformed Bagger-Lambert theory and its BPS objects. Physical Review D, 2008, 78, .  | 4.7 | 74        |
| 43 | All higher genus BPS membranes in the plane wave background. Journal of High Energy Physics, 2005, 2005, 035-035.  | 4.7 | 18        |
| 44 | BPS electromagnetic waves on giant gravitons. Journal of High Energy Physics, 2005, 2005, 111-111.   | 4.7 | 14        |
| 45 | BPS objects in N=2 supersymmetric gauge theories. Physical Review D, 2005, 72, .   | 4.7 | 17        |
| 46 | The N=1* Theories on R <sup>1,2</sup> S <sup>1</sup> with Twisted Boundary Conditions. Journal of High Energy Physics, 2004, 2004, 040-040.                              | 4.7 | 12        |
| 47 | 1/4 BPS dyonic calorons. Physical Review D, 2003, 67, .  | 4.7 | 7         |
| 48 | Dyonic instanton as supertube between D4-branes. Journal of High Energy Physics, 2003, 2003, 035-035.  | 4.7 | 22        |
| 49 | First and second order vortex dynamics. Physical Review D, 2002, 66, .   | 4.7 | 10        |
| 50 | Quantum field dynamics in a uniform magnetic field: Description using fields in oblique phase space. Physical Review D, 2002, 65, .                                      | 4.7 | 5         |
| 51 | BPS equations in six and eight dimensions. Physical Review D, 2002, 66, .  | 4.7 | 36        |
| 52 | Discrete light cone quantization of fivebranes, large N screening, and L <sup>2</sup> harmonic forms on Calabi manifolds. Physical Review D, 2002, 65, .                 | 4.7 | 5         |
| 53 | Tales of D0 on D6 branes: matrix mechanics of identical particles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 543, 107-114. | 4.1 | 5         |
| 54 | Supertubes connecting D4 branes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 544, 329-336.                                   | 4.1 | 22        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Chern-Simons Theories on the Noncommutative Plane. <i>Physical Review Letters</i> , 2001, 87, 030402.   | 7.8 | 49        |
| 56 | The CP(n) model on noncommutative plane. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 498, 277-284.  | 4.1 | 37        |
| 57 | Comments on noncommutative gauge theories. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 501, 305-312.  | 4.1 | 22        |
| 58 | Noncommutative supersymmetric tubes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 509, 168-174.  | 4.1 | 66        |
| 59 | Moduli space of two U(1) instantons on noncommutative $R^4$ and $R^3 \times S^1$ . <i>Physical Review D</i> , 2001, 63, .   | 4.7 | 21        |
| 60 | Noncommutative vortex solitons. <i>Physical Review D</i> , 2001, 63, .  | 4.7 | 53        |
| 61 | General low energy dynamics of supersymmetric monopoles. <i>Physical Review D</i> , 2001, 63, .   | 4.7 | 22        |
| 62 | Elongation of moving noncommutative solitons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 495, 231-236.   | 4.1 | 19        |
| 63 | General dynamics of two distinct Bogomol'nyi-Prasad-Sommerfield monopoles. <i>Physical Review D</i> , 2000, 63, .   | 4.7 | 6         |
| 64 | Quantum 1/4 BPS dyons. <i>Physical Review D</i> , 2000, 61, .   | 4.7 | 23        |
| 65 | Quantum spectrum of instanton solitons in five-dimensional noncommutative U(N) theories. <i>Physical Review D</i> , 2000, 61, .   | 4.7 | 23        |
| 66 | Complete supersymmetric quantum mechanics of magnetic monopoles in N=4 super Yang-Mills theory. <i>Physical Review D</i> , 2000, 62, .  | 4.7 | 22        |
| 67 | Low energy dynamics for 1/4 BPS dyons. <i>Physical Review D</i> , 1999, 61, .   | 4.7 | 26        |
| 68 | Comments on the moduli dynamics of 1/4 BPS dyons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 468, 76-80.   | 4.1 | 18        |
| 69 | Vortex string dynamics in an external antisymmetric tensor field. <i>Nuclear Physics B</i> , 1999, 563, 461-476.  | 2.5 | 6         |
| 70 | Instantons and magnetic monopoles on $R^3 \times S^1$ with arbitrary simple gauge groups. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 426, 323-328. | 4.1 | 69        |
| 71 | A family of N = 2 gauge theories with exact S-duality. <i>Nuclear Physics B</i> , 1998, 520, 157-178.   | 2.5 | 8         |
| 72 | Dyons in N=4 supersymmetric theories and three-pronged strings. <i>Physical Review D</i> , 1998, 58, .  | 4.7 | 58        |

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|----|--|-----|-----------|
| 73 | Two massive and one massless $Sp(4)$ monopole. <i>Physical Review D</i> , 1998, 57, 5260-5272.   | 4.7 | 13        |
| 74 | $SU(2)$ calorons and magnetic monopoles. <i>Physical Review D</i> , 1998, 58, .  | 4.7 | 236       |
| 75 | Vacuum decay and internal symmetries. <i>Physical Review D</i> , 1997, 55, 4903-4909.  | 4.7 | 23        |
| 76 | Finite Temperature Chern-Simons Coefficient. <i>Physical Review Letters</i> , 1997, 78, 3434-3437.   | 7.8 | 70        |
| 77 | BPS domain wall solutions in self-dual Chern-Simons-Higgs systems. <i>Physical Review D</i> , 1997, 55, 6447-6453.   | 4.7 | 21        |
| 78 | Monopoles and instantons on partially compactified D-branes. <i>Physical Review D</i> , 1997, 56, 3711-3717.   | 4.7 | 160       |
| 79 | Massive and massless monopoles with non-Abelian magnetic charges. <i>Physical Review D</i> , 1996, 54, 6351-6371.  | 4.7 | 54        |
| 80 | The Chern-Simons coefficient in supersymmetric Yang-Mills Chern-Simons theories. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 373, 94-99. | 4.1 | 81        |
| 81 | Electromagnetic duality and $SU(3)$ monopoles. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 376, 97-102.                                  | 4.1 | 76        |
| 82 | The self-dual Chern-Simons $CP(N)$ models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 380, 303-307.                                     | 4.1 | 16        |
| 83 | Anyonic Bogomol'nyi solitons in a gauged $O(3)$ $\sigma$ model. <i>Physical Review D</i> , 1996, 53, 4436-4440.  | 4.7 | 59        |
| 84 | Moduli space of many BPS monopoles for arbitrary gauge groups. <i>Physical Review D</i> , 1996, 54, 1633-1643.   | 4.7 | 87        |
| 85 | Self-dual anyons in uniform background fields. <i>Physical Review D</i> , 1995, 52, 2412-2421.   | 4.7 | 7         |
| 86 | Quantum nucleation of vortex string loops. <i>Physical Review D</i> , 1995, 52, 6050-6056.   | 4.7 | 7         |
| 87 | Quantum tunneling with global charge. <i>Physical Review D</i> , 1994, 50, 5333-5342.  | 4.7 | 14        |
| 88 | Nontopological Magnetic Monopoles and New Magnetically Charged Black Holes. <i>Physical Review Letters</i> , 1994, 73, 1203-1206.  | 7.8 | 28        |
| 89 | Phase of the Wilson Line at High Temperature in the Standard Model. <i>Physical Review Letters</i> , 1994, 73, 1754-1757.  | 7.8 | 19        |
| 90 | Self-dual $SU(3)$ Chern-Simons Higgs systems. <i>Physical Review D</i> , 1994, 50, 6626-6632.  | 4.7 | 45        |

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|-----|---|-----|-----------|
| 91  | Vortex dynamics in self-dual Maxwell-Higgs systems with a uniform background electric charge density. <i>Physical Review D</i> , 1994, 49, 4265-4276.                 | 4.7 | 21        |
| 92  | The Chern-Simons coefficient in the Higgs phase. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 341, 181-186.        | 4.1 | 9         |
| 93  | Vortex dynamics in self-dual Chern-Simons-Higgs systems. <i>Physical Review D</i> , 1994, 49, 2041-2054.  | 4.7 | 45        |
| 94  | Dual formulation of cosmic strings and vortices. <i>Physical Review D</i> , 1993, 48, 2493-2498.  | 4.7 | 43        |
| 95  | A classical instability of Reissner-Nordström solutions and the fate of magnetically charged black holes. <i>Physical Review Letters</i> , 1992, 68, 1100-1103.       | 7.8 | 114       |
| 96  | Black holes in magnetic monopoles. <i>Physical Review D</i> , 1992, 45, 2751-2761.  | 4.7 | 190       |
| 97  | Self-dual Chern-Simons Higgs systems with an $N=3$ extended supersymmetry. <i>Physical Review D</i> , 1992, 46, 4691-4697.  | 4.7 | 57        |
| 98  | Charge violation by instantons in Chern-Simons theories. <i>Nuclear Physics B</i> , 1992, 373, 735-748.   | 2.5 | 29        |
| 99  | The fate of magnetically charged black holes. <i>General Relativity and Gravitation</i> , 1992, 24, 1203-1207.  | 2.0 | 11        |
| 100 | Relativistic nonabelian self-dual Chern-Simons systems. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991, 255, 381-384. | 4.1 | 49        |
| 101 | Self-dual non-Abelian Chern-Simons solitons. <i>Physical Review Letters</i> , 1991, 66, 553-555.  | 7.8 | 57        |
| 102 | Charged black holes with scalar hair. <i>Physical Review D</i> , 1991, 44, 3159-3163.   | 4.7 | 32        |
| 103 | Supersymmetry and self-dual Chern-Simons systems. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990, 243, 105-108.       | 4.1 | 137       |
| 104 | Self-dual Maxwell Chern-Simons solitons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990, 252, 79-83.                  | 4.1 | 133       |
| 105 | Wormholes made without massless matter fields. <i>Nuclear Physics B</i> , 1990, 329, 387-409.   | 2.5 | 115       |
| 106 | Big wormholes and little interactions. <i>Nuclear Physics B</i> , 1990, 341, 101-118.   | 2.5 | 9         |
| 107 | Self-dual Chern-Simons solitons. <i>Physical Review D</i> , 1990, 42, 3488-3499.  | 4.7 | 234       |
| 108 | Gauged Qballs. <i>Physical Review D</i> , 1989, 39, 1665-1673.  | 4.7 | 144       |

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|-----|--|-----|-----------|
| 109 | Scale problem in wormhole physics. <i>Physical Review Letters</i> , 1989, 63, 20-23.   | 7.8 | 9         |
| 110 | Escape from the menace of the giant wormholes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989, 221, 242-249. | 4.1 | 38        |
| 111 | Ground state of high-density matter. <i>Nuclear Physics B</i> , 1989, 319, 501-510.  | 2.5 | 11        |
| 112 | Anomalies and effective lagrangians of superconducting cosmic strings. <i>Nuclear Physics B</i> , 1988, 297, 765-786.  | 2.5 | 4         |
| 113 | Magnetic Monopole with Wilson-Loop Symmetry Breaking. <i>Physical Review Letters</i> , 1988, 60, 2231-2234.  | 7.8 | 9         |
| 114 | Existence and stability of nontopological strings. <i>Physical Review D</i> , 1988, 38, 3023-3030.   | 4.7 | 12        |
| 115 | Wormholes and Goldstone Bosons. <i>Physical Review Letters</i> , 1988, 61, 263-266.  | 7.8 | 130       |
| 116 | Wilson-loop instantons. <i>Physical Review Letters</i> , 1987, 59, 1069-1071.  | 7.8 | 16        |
| 117 | Tunnelling without barriers in curved space-time. <i>Nuclear Physics B</i> , 1987, 282, 509-530.   | 2.5 | 13        |
| 118 | Decay of the true vacuum in curved space-time. <i>Physical Review D</i> , 1987, 36, 1088-1094.   | 4.7 | 124       |
| 119 | Topological mass terms on axion domain walls. <i>Physical Review D</i> , 1987, 35, 3286-3289.  | 4.7 | 9         |
| 120 | Tunneling without barriers. <i>Nuclear Physics B</i> , 1986, 267, 181-202.   | 2.5 | 82        |
| 121 | Density fluctuations and particle-antiparticle annihilation. <i>Nuclear Physics B</i> , 1984, 246, 354-370.  | 2.5 | 22        |