# Samir D Mathur

List of Publications by Year
in descending order



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|---|---|---|---|
| 85 papers | 4,583 citations | 101543 36 h-index | 98798 67 g-index |
| 86 all docs | 86 docs citations | 86 times ranked | 1030 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The elastic vacuum. International Journal of Modern Physics D, 2021, 30, . | 2.1 | 1 |
| 2 | Three puzzles in cosmology. International Journal of Modern Physics D, 2020, 29, 2030013. | 2.1 | 6 |
| 3 | Lifting of level-1 states in the D1D5 CFT. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 16 |
| 4 | Thermalization in the D1D5 CFT. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 8 |
| 5 | Lifting at higher levels in the D1D5 CFT. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 16 |
| 6 | The vecro hypothesis. International Journal of Modern Physics D, 2020, 29, 2030009. | 2.1 | 7 |
| 7 | Lifting of D1-D5-P states. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 26 |
| 8 | The fuzzball nature of two-charge black hole microstates. Nuclear Physics B, 2019, 945, 114684. | 2.5 | 12 |
| 9 | Resolving the black hole causality paradox. General Relativity and Gravitation, 2019, 51, 1. | 2.0 | 9 |
| 10 | The nature of the gravitational vacuum. International Journal of Modern Physics D, 2019, 28, 1944005. | 2.1 | 2 |
| 11 | Lifting of states in 2-dimensional N = 4 supersymmetric CFTs. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 15 |
| 12 | Can the universe be described by a wave function?. International Journal of Modern Physics D, 2018, 27, 1847004. | 2.1 | 1 |
| 13 | Can we observe fuzzballs or firewalls?. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 44 |
| 14 | Spacetime has a â€œthicknessâ€• International Journal of Modern Physics D, 2017, 26, 1742002. | 2.1 | 3 |
| 15 | Full action of two deformation operators in the D1D5 CFT. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 21 |
| 16 | One-loop transition amplitudes in the D1D5 CFT. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 16 |
| 17 | Is entropy really proportional to area?. , 2017, , . | | 0 |
| 18 | What are fuzzballs, and do they have to behave as firewalls?. , 2017, , . | | 0 |

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|---|---|---|---|
| 19 | What prevents gravitational collapse in string theory?. International Journal of Modern Physics D, 2016, 25, 1644018. | 2.1 | 7 |
| 20 | Second order effect of twist deformations in the D1D5 CFT. Journal of High Energy Physics, 2016, 2016, 1-51. | 4.7 | 4 |
| 21 | Analyzing the squeezed state generated by a twist deformation. Physical Review D, 2015, 91, . | 4.7 | 15 |
| 22 | Nature abhors a horizon. International Journal of Modern Physics D, 2015, 24, 1543003. | 2.1 | 14 |
| 23 | Effect of the deformation operator in the D1D5 CFT. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 39 |
| 24 | Remnants, fuzzballs or wormholes?. International Journal of Modern Physics D, 2014, 23, 1442024. | 2.1 | 2 |
| 25 | Bogoliubov coefficients for the twist operator in the D1D5 CFT. Nuclear Physics B, 2014, 889, 443-485. | 2.5 | 29 |
| 26 | An equation of state in the limit of high densities. Physical Review D, 2014, 90, . | 4.7 | 8 |
| 27 | Comments on black holes I: the possibility of complementarity. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 75 |
| 28 | Oscillating supertubes and neutral rotating black hole microstates. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 24 |
| 29 | Effect of the twist operator in the D1D5 CFT. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 32 |
| 30 | The flaw in the firewall argument. Nuclear Physics B, 2014, 884, 566-611. | 2.5 | 42 |
| 31 | A toy black hole S-matrix in the D1-D5 CFT. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 8 |
| 32 | D1-D5-P microstates at the cap. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 67 |
| 33 | Adding momentum to supersymmetric geometries. Nuclear Physics B, 2013, 868, 383-415. | 2.5 | 53 |
| 34 | WHAT HAPPENS AT THE HORIZON?. International Journal of Modern Physics D, 2013, 22, 1341016. | 2.1 | 6 |
| 35 | Black holes and holography. Journal of Physics: Conference Series, 2012, 405, 012005. | 0.4 | 11 |
| 36 | WHAT CAN THE INFORMATION PARADOX TELL US ABOUT THE EARLY UNIVERSE?. International Journal of Modern Physics D, 2012, 21, 1241002. | 2.1 | 3 |

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| 37 | Momentum-carrying waves on D1â€“D5 microstate geometries. Nuclear Physics B, 2012, 862, 764-780. | 2.5 | 32 |
| 38 | Black holes and beyond. Annals of Physics, 2012, 327, 2760-2793. | 2.8 | 49 |
| 39 | The information paradox: Conflicts and resolutions. Pramana - Journal of Physics, 2012, 79, 1059-1073. | 1.8 | 23 |
| 40 | Microstates at the boundary of AdS. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 42 |
| 41 | Effective information loss outside the horizon. General Relativity and Gravitation, 2011, 43, 2561-2566. | 2.0 | 0 |
| 42 | Correlations in Hawking radiation and the infall problem. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 40 |
| 43 | The information paradox and the infall problem. Classical and Quantum Gravity, 2011, 28, 125010. | 4.0 | 36 |
| 44 | EFFECTIVE INFORMATION LOSS OUTSIDE THE HORIZON. International Journal of Modern Physics D, 2011, 20, 2881-2886. | 2.1 | 0 |
| 45 | Deforming the D1D5 CFT away from the orbifold point. Journal of High Energy Physics, 2010, 2010, 1. | 4.7 | 59 |
| 46 | Excitations in the deformed D1D5 CFT. Journal of High Energy Physics, 2010, 2010, 1. | 4.7 | 49 |
| 47 | Unwinding of strings thrown into a fuzzball. Journal of High Energy Physics, 2010, 2010, 1. | 4.7 | 1 |
| 48 | Tunneling into fuzzball states. General Relativity and Gravitation, 2010, 42, 113-118. | 2.0 | 44 |
| 49 | Membrane paradigm realized?. General Relativity and Gravitation, 2010, 42, 2331-2336. | 2.0 | 10 |
| 50 | MEMBRANE PARADIGM REALIZED?. International Journal of Modern Physics D, 2010, 19, 2423-2428. | 2.1 | 2 |
| 51 | HOW FAST CAN A BLACK HOLE RELEASE ITS INFORMATION?. International Journal of Modern Physics D, 2009, 18, 2215-2219. | 2.1 | 28 |
| 52 | Emission from the D1D5 CFT. Journal of High Energy Physics, 2009, 2009, 065-065. | 4.7 | 46 |
| 53 | Non-extremal fuzzballs and ergoregion emission. Classical and Quantum Gravity, 2009, 26, 035006. | 4.0 | 41 |
| 54 | The information paradox: a pedagogical introduction. Classical and Quantum Gravity, 2009, 26, 224001. | 4.0 | 613 |

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| 55 | FALLING INTO A BLACK HOLE. International Journal of Modern Physics D, 2008, 17, 583-589. | 2.1 | 1 |
| 56 | Radiation from the non-extremal fuzzball. Classical and Quantum Gravity, 2008, 25, 135005. | 4.0 | 81 |
| 57 | Pair creation in non-extremal fuzzball geometries. Classical and Quantum Gravity, 2008, 25, 225021. | 4.0 | 38 |
| 58 | A microstate for the 3-charge black ring. Nuclear Physics B, 2007, 763, 60-90. | 2.5 | 15 |
| 59 | Fuzzball geometries and higher derivative corrections for extremal holes. Nuclear Physics B, 2006, 738, 48-75. | 2.5 | 23 |
| 60 | 3-charge geometries and their CFT duals. Nuclear Physics B, 2005, 710, 425-463. | 2.5 | 151 |
| 61 | Geometry of D1â€“D5â€“P bound states. Nuclear Physics B, 2005, 729, 203-220. | 2.5 | 77 |
| 62 | Constructing â€˜hairâ€™ for the three charge hole. Nuclear Physics B, 2004, 680, 415-449. | 2.5 | 109 |
| 63 | Dual geometries for a set of 3-charge microstates. Nuclear Physics B, 2004, 701, 357-379. | 2.5 | 179 |
| 64 | WHERE ARE THE STATES OF A BLACK HOLE?. , 2004, , . | | 3 |
| 65 | What is the gravity dual of a chiral primary?. Nuclear Physics B, 2003, 655, 185-217. | 2.5 | 91 |
| 66 | HOW DOES THE UNIVERSE EXPAND?. International Journal of Modern Physics D, 2003, 12, 1681-1685. | 2.1 | 10 |
| 67 | Statistical Interpretation of the Bekenstein Entropy for Systems with a Stretched Horizon. Physical Review Letters, 2002, 88, 211303. | 7.8 | 204 |
| 68 | A PROPOSAL TO RESOLVE THE BLACK HOLE INFORMATION PARADOX. International Journal of Modern Physics D, 2002, 11, 1537-1540. | 2.1 | 20 |
| 69 | AdS/CFT duality and the black hole information paradox. Nuclear Physics B, 2002, 623, 342-394. | 2.5 | 412 |
| 70 | Rotating deformations of AdS3Ã—S3, the orbifold CFT and strings in the pp-wave limit. Nuclear Physics B, 2002, 642, 91-113. | 2.5 | 48 |
| 71 | Three-Point Functions for M N / S N OrbifoldsÂ¶with? = 4 Supersymmetry. Communications in Mathematical Physics, 2002, 227, 385-419. | 2.2 | 130 |
| 72 | Metric of the multiply wound rotating string. Nuclear Physics B, 2001, 610, 49-76. | 2.5 | 192 |

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| 73 | The slowly rotating near extremal D1â€“D5 system as a â€˜hot tubeâ€™. Nuclear Physics B, 2001, 615, 285-312. | 2.5 | 43 |
| 74 | Correlation Functions for M N / S N Orbifolds. Communications in Mathematical Physics, 2001, 219, 399-442. | 2.2 | 191 |
| 75 | CORRELATION FUNCTIONS FOR MN/SN ORBIFOLDS. International Journal of Modern Physics A, 2001, 16, 967-969. | 1.5 | 5 |
| 76 | A COMMENT ON THE BLACK HOLE INFORMATION PARADOX. International Journal of Modern Physics A, 2001, 16, 1001-1004. | 1.5 | 0 |
| 77 | RESOLVING THE BLACK HOLE INFORMATION PARADOX. International Journal of Modern Physics A, 2000, 15, 4877-4882. | 1.5 | 10 |
| 78 | The Quantum Physics of Black Holes: Results from String Theory. Annual Review of Nuclear and Particle Science, 2000, 50, 153-206. | 10.2 | 38 |
| 79 | EXTREMAL CORRELATORS IN THE ADS/CFT CORRESPONDENCE. , 2000, , 332-360. | | 30 |
| 80 | Emission rates, the correspondence principle and the information paradox. Nuclear Physics B, 1998, 529, 295-320. | 2.5 | 37 |
| 81 | Universality of Low Energy Absorption Cross Sections for Black Holes. Physical Review Letters, 1997, 78, 417-419. | 7.8 | 256 |
| 82 | Comparing decay rates for black holes and D-branes. Nuclear Physics B, 1996, 478, 561-576. | 2.5 | 236 |
| 83 | Interactions involving D-branes. Nuclear Physics B, 1996, 482, 153-172. | 2.5 | 81 |
| 84 | Folds, bosonization and non-triviality of the classical limit of 2D string theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 365, 79-86. | 4.1 | 24 |
| 85 | Excitations of D-strings, entropy and duality. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 375, 103-110. | 4.1 | 91 |