

Curriculum Vitae

JUAN MARTÍN MALDACENA

Personal

Date of Birth: September 10, 1968

Place of Birth: Buenos Aires, Argentina

Nationality: US citizen, Argentina, Italy

Address: Institute for Advanced Study, School of Natural Sciences, 1 Einstein Drive,
Princeton, NJ 08540 USA

Telephone: (609) 734-8307

Fax Number: (609) 951-4489

E-mail: malda@ias.edu

Education and Professional Experience

- 2016 - present, Carl P. Feinberg Professor at the Institute for Advanced Study
- 2001 - present, Professor at the Institute for Advanced Study
- 1999-2001 Professor of Physics at Harvard University.
- 1998-1999 Tomas D. Cabot Associate Professor at Harvard University.
- 1997, Visiting Associate Professor at Harvard University.
- 1996-1997: Research Associate (post-doc) at Rutgers University.
- 1992-1996 Ph.D. Program at Princeton University. Ph.D. advisor C. Callan.
- 1988-1991 Student at Instituto Balseiro from the Universidad de Cuyo, Bariloche, Argentina. “Licenciatura” supervised by G. Aldazabal.
- 1986-1988 Student at the University of Buenos Aires, Argentina.

Professional Societies and Other Activities

- Member of The World Academy of Sciences (TWAS)
- Member of the National Academy of Sciences
- Member of the Committee for the Mathematical Sciences in 2025 Study of the National Academy of Sciences
- Member of the American Physical Society
- Member of the American Academy of Arts and Sciences
- Member of the Scientific Council for the International Center for Theoretical Physics
- Member of the steering committee for the ICTP South American Center for Theoretical Physics (at Sao Paulo)

Honors and Awards

- 2018, Lorentz Medal
- 2018, Einstein Medal
- 2012, Milner Foundation Fundamental Physics Prize
- 2012, I.Ya.Pomeranchuk Prize
- 2008, ICTP Dirac Medal
- 2007, Dannie Heineman Prize for Mathematical Physics
- 2004, Distinguished Lecturer at Stanford University
- 2004, APS Edward A. Bouchet Award
- 2002, Pius XI Medal
- 2001, Xanthopoulos Prize in General Relativity
- 2000, Sackler Prize in Physics
- 1999, UNESCO Husein Prize for Young Scientists
- 1999, MacArthur Fellowship
- 1998, Packard Fellowship in Science and Engineering
- 1998, Sloan Fellowship

List of Publications

References

- [1] J. Maldacena and X. L. Qi, “Eternal Traversable Wormhole,” arXiv:1804.00491 [hep-th].
- [2] J. Maldacena and A. Milekhin, “To Gauge or not to Gauge?,” JHEP **1804**, 084 (2018) doi:10.1007/JHEP04(2018)084 [arXiv:1802.00428 [hep-th]].
- [3] C. Cordova, J. Maldacena and G. J. Turiaci, “Bounds on OPE Coefficients from Interference Effects in the Conformal Collider,” JHEP **1711**, 032 (2017) doi:10.1007/JHEP11(2017)032 [arXiv:1710.03199 [hep-th]].
- [4] I. Kourkoulou and J. Maldacena, “Pure States in the SYK Model and Nearly- AdS_2 Gravity,” arXiv:1707.02325 [hep-th].
- [5] J. Maldacena, D. Stanford and Z. Yang, “Diving into Traversable Wormholes,” Fortsch. Phys. **65**, no. 5, 1700034 (2017) doi:10.1002/prop.201700034 [arXiv:1704.05333 [hep-th]].
- [6] W. Fu, D. Gaiotto, J. Maldacena and S. Sachdev, “Supersymmetric Sachdev-Ye-Kitaev Models,” Phys. Rev. D **95**, no. 2, 026009 (2017) Addendum: [Phys. Rev. D **95**, no. 6, 069904 (2017)] doi:10.1103/PhysRevD.95.069904, 10.1103/PhysRevD.95.026009 [arXiv:1610.08917 [hep-th]].
- [7] J. Maldacena, D. Stanford and Z. Yang, “Conformal Symmetry and its Breaking in Two Dimensional Nearly Anti-de-Sitter Space,” PTEP **2016**, no. 12, 12C104 (2016) doi:10.1093/ptep/ptw124 [arXiv:1606.01857 [hep-th]].
- [8] J. Maldacena and D. Stanford, “Remarks on the Sachdev-Ye-Kitaev Model,” Phys. Rev. D **94**, no. 10, 106002 (2016) doi:10.1103/PhysRevD.94.106002 [arXiv:1604.07818 [hep-th]].
- [9] J. M. Maldacena, “An Introduction to the Gauge/Gravity Duality,” Les Houches Lect. Notes **97**, 141 (2015). doi:10.1093/acprof:oso/9780198727965.003.0006
- [10] D. L. Jafferis, A. Lewkowycz, J. Maldacena and S. J. Suh, “Relative Entropy Equals Bulk Relative Entropy,” JHEP **1606**, 004 (2016) doi:10.1007/JHEP06(2016)004 arXiv:1512.06431 [hep-th].
- [11] V. Alba and J. Maldacena, “Primordial Gravity Wave Background Anisotropies,” JHEP **1603**, 115 (2016) doi:10.1007/JHEP03(2016)115 arXiv:1512.01531 [hep-th].
- [12] J. Maldacena, D. Simmons-Duffin and A. Zhiboedov, “Looking for a Bulk Point,” JHEP **1701**, 013 (2017) doi:10.1007/JHEP01(2017)013 arXiv:1509.03612 [hep-th].
- [13] J. Maldacena, “A Model with Cosmological Bell Inequalities,” Fortsch. Phys. **64**, 10 (2016), [arXiv:1508.01082 [hep-th]].

- [14] N. Arkani-Hamed and J. Maldacena, “Cosmological Collider Physics,” arXiv:1503.08043 [hep-th].
- [15] J. Maldacena, S. H. Shenker and D. Stanford, “A Bound on Chaos,” JHEP **1608**, 106 (2016) doi:10.1007/JHEP08(2016)106 arXiv:1503.01409 [hep-th].
- [16] J. Maldacena, “The Symmetry and Simplicity of the Laws of Physics and the Higgs Boson,” Eur. J. Phys. **37**, no. 1, 015802 (2016), arXiv:1410.6753 [physics.pop-ph].
- [17] X. O. Camanho, J. D. Edelstein, J. Maldacena and A. Zhiboedov, “Causality Constraints on Corrections to the Graviton Three-Point Coupling,” JHEP **1602**, 020 (2016) doi:10.1007/JHEP02(2016)020 arXiv:1407.5597 [hep-th].
- [18] R. Bousso, H. Casini, Z. Fisher and J. Maldacena, “Entropy on a Null Surface for Interacting Quantum Field Theories and the Bousso Bound,” Phys. Rev. D **91**, no. 8, 084030 (2015), arXiv:1406.4545 [hep-th].
- [19] J. Maldacena, “Testing Gauge/Gravity Duality on a Quantum Black Hole,” Science **344**, no. 6186, 806 (2014).
- [20] R. Bousso, H. Casini, Z. Fisher and J. Maldacena, “Proof of a Quantum Bousso Bound,” Phys. Rev. D **90**, no. 4, 044002 (2014) arXiv:1404.5635 [hep-th].
- [21] A. Lewkowycz and J. Maldacena, “Exact Results for the Entanglement Entropy and the Energy Radiated by a Quark,” JHEP **1405**, 025 (2014) arXiv:1312.5682 [hep-th].
- [22] K. N. Abazajian, K. Arnold, J. Austermann, B. A. Benson, C. Bischoff, J. Bock, J. R. Bond and J. Borrill *et al.*, “Inflation Physics from the Cosmic Microwave Background and Large Scale Structure,” Astropart. Phys. **63**, 55 (2015) arXiv:1309.5381 [astro-ph.CO].
- [23] T. Faulkner, A. Lewkowycz and J. Maldacena, “Quantum Corrections to Holographic Entanglement Entropy,” JHEP **1311**, 074 (2013) [arXiv:1307.2892].
- [24] J. Maldacena and L. Susskind, “Cool Horizons for Entangled Black Holes,” Fortsch. Phys. **61**, 781 (2013) [arXiv:1306.0533 [hep-th]].
- [25] A. Lewkowycz and J. Maldacena, “Generalized Gravitational Entropy,” JHEP **1308**, 090 (2013) [arXiv:1304.4926 [hep-th]].
- [26] T. Hartman and J. Maldacena, “Time Evolution of Entanglement Entropy from Black Hole Interiors,” JHEP **1305**, 014 (2013) [arXiv:1303.1080 [hep-th]].
- [27] O. Aharony, S. Giombi, G. Gur-Ari, J. Maldacena and R. Yacoby, “The Thermal Free Energy in Large N Chern-Simons-Matter Theories,” JHEP **1303**, 121 (2013) [arXiv:1211.4843 [hep-th]].
- [28] J. Maldacena and G. L. Pimentel, “Entanglement Entropy in de Sitter Space,” JHEP **1302**, 038 (2013) [arXiv:1210.7244 [hep-th]].

- [29] J. Maldacena and A. Zhiboedov, “Constraining Conformal Field Theories with a Slightly Broken Higher Spin Symmetry,” *Class. Quant. Grav.* **30**, 104003 (2013) [arXiv:1204.3882 [hep-th]].
- [30] D. Correa, J. Maldacena and A. Sever, “The Quark Anti-Quark Potential and the Cusp Anomalous Dimension from a TBA Equation,” *JHEP* **1208**, 134 (2012) [arXiv:1203.1913 [hep-th]].
- [31] D. Correa, J. Henn, J. Maldacena and A. Sever, “The Cusp Anomalous Dimension at Three Loops and Beyond,” *JHEP* **1205**, 098 (2012) hep-th/1203.1019.
- [32] D. Correa, J. Henn, J. Maldacena and A. Sever, “An Exact Formula for the Radiation of a Moving Quark in N=4 Super Yang Mills,” *JHEP* **1206**, 048 (2012) hep-th/1202.4455.
- [33] J. Maldacena and A. Zhiboedov, “Constraining Conformal Field Theories with a Higher Spin Symmetry,” *J. Phys. A* **46**, 214011 (2013) [arXiv:1112.1016 [hep-th]].
- [34] J. Maldacena, “The Gauge/Gravity Duality,” hep-th/1106.6073.
- [35] J. Maldacena, “Einstein Gravity from Conformal Gravity,” hep-th/1105.5632.
- [36] J. M. Maldacena, G. L. Pimentel, “On graviton non-Gaussianities During Inflation,” *JHEP* **1109**, 045 (2011), hep-th/1104.2846.
- [37] D. Gaiotto, J. Maldacena, A. Sever, P. Vieira, “Pulling the Straps of Polygons,” *JHEP* **1112**, 011 (2011), hep-th/1102.0062.
- [38] J. Maldacena, “Vacuum Decay into Anti de Sitter Space,” hep-th/1012.0274.
- [39] D. Gaiotto, J. Maldacena, A. Sever, P. Vieira, “Bootstrapping Null Polygon Wilson Loops,” *JHEP* **1103**, 092 (2011), hep-th/1010.5009.
- [40] J. Maldacena, A. Zhiboedov, “Form Factors at Strong Coupling via a Y-system,” *JHEP* **1011**, 104 (2010), hep-th/1009.1139.
- [41] L. F. Alday, B. Eden, G. P. Korchemsky, J. Maldacena, E. Sokatchev, “From Correlation Functions to Wilson Loops,” *JHEP* **1109**, 123 (2011), hep-th/1007.3243.
- [42] L. F. Alday, D. Gaiotto, J. Maldacena, A. Sever, P. Vieira, “An Operator Product Expansion for Polygonal Null Wilson Loops,” *JHEP* **1104**, 088 (2011), hep-th/1006.2788.
- [43] L. F. Alday, J. Maldacena, A. Sever, P. Vieira, “Y-system for Scattering Amplitudes,” *J. Phys. A* **A43**, 485401 (2010), hep-th/1002.2459.
- [44] L. F. Alday, D. Gaiotto, J. Maldacena, “Thermodynamic Bubble Ansatz,” *JHEP* **1109**, 032 (2011), hep-th/0911.4708.

- [45] J. Maldacena, D. Martelli, “The Unwarped, Resolved, Deformed Conifold: Five-branes and the Baryonic Branch of the Klebanov-Strassler Theory,” JHEP **1001**, 104 (2010), hep-th/0906.0591.
- [46] D. Gaiotto, J. Maldacena, “The Gravity Duals of N=2 Superconformal Field Theories,” hep-th/0904.4466.
- [47] L. F. Alday, J. Maldacena, “Null Polygonal Wilson Loops and Minimal Surfaces in Anti-de-Sitter Space,” JHEP **0911**, 082 (2009), hep-th/0904.0663.
- [48] L. F. Alday, J. Maldacena, “Minimal Surfaces in AdS and the Eight-gluon Scattering Amplitude at Strong Coupling,” hep-th/0903.4707.
- [49] I. R. Klebanov, J. M. Maldacena, “Solving Quantum Field Theories via Curved Spacetimes,” Phys. Today **62**, 28-33 (2009).
- [50] E. Komatsu, N. Afshordi, N. Bartolo, D. Baumann, J. R. Bond, E. I. Buchbinder, C. T. Byrnes, X. Chen *et al.*, “Non-Gaussianity as a Probe of the Physics of the Primordial Universe and the Astrophysics of the Low Redshift Universe,” astro-ph.CO/0902.4759.
- [51] L. F. Alday, J. Maldacena, “Lectures on Scattering Amplitudes via AdS/CFT,” AIP Conf. Proc. **1031**, 43-60 (2008).
- [52] L. F. Alday and J. Maldacena, “Lectures on Scattering Amplitudes via AdS/CFT,” AIP Conf. Proc. **1031**, 43 (2008).
- [53] N. Berkovits and J. Maldacena, “Fermionic T-Duality, Dual Superconformal Symmetry, and the Amplitude/Wilson Loop Connection,” JHEP **0809**, 062 (2008), hep-th/0807.3196.
- [54] J. Maldacena, D. Martelli and Y. Tachikawa, “Comments on String Theory Backgrounds with Non-Relativistic Conformal Symmetry,” JHEP **0810**, 072 (2008), hep-th/0807.1100.
- [55] O. Aharony, O. Bergman, D. L. Jafferis and J. Maldacena, “N=6 Superconformal Chern-Simons-matter Theories, M2-branes and Their Gravity Duals,” JHEP **0810**, 091 (2008), hep-th/0806.1218.
- [56] D. M. Hofman and J. Maldacena, “Conformal Collider Physics: Energy and Charge Correlations,” JHEP **0805**, 012, 2008, hep-th/0803.1467.
- [57] L. F. Alday and J. Maldacena, “Comments on Gluon Scattering Amplitudes via AdS/CFT,” JHEP **0711**, 068 (2007), hep-th/0710.1060.
- [58] D. M. Hofman and J. M. Maldacena, “Reflecting Magnons,” JHEP **0711**, 063 (2007), hep-th/0708.2272.
- [59] L. F. Alday and J. M. Maldacena, “Comments on Operators with Large Spin,” JHEP **0711**, 019 (2007), hep-th/0708.0672.

- [60] L. F. Alday and J. Maldacena, “Gluon Scattering Amplitudes at Strong Coupling,” JHEP **0706**, 064 (2007), hep-th/0705.0303.
- [61] J. Maldacena, “Large N Field Theories, String Theory and Gravity,” *Prepared for Conference on Topics in Mathematical Physics, General Relativity, and Cosmology on the Occasion of the 75th Birthday of Jerzy F. Plebanski, Mexico City, Mexico, 17-20 Sep 2002.*
- [62] N. Dorey, D. M. Hofman and J. Maldacena, “On the Singularities of the Magnon S-matrix,” Phys. Rev. D **76**, 025011 (2007), hep-th/0703104.
- [63] J. M. Maldacena and I. Swanson, “Connecting Giant Magnons to the pp-wave: An Interpolating Limit of $AdS_5 \times S^5$,” Phys. Rev. D **76**, 026002 (2007), hep-th/0612079.
- [64] D. Baumann, A. Dymarsky, I. R. Klebanov, J. Maldacena, L. McAllister and A. Murugan, “On D3-brane Potentials in Compactifications with Fluxes and Wrapped D-branes,” JHEP **0611**, 031 (2006), hep-th/0607050.
- [65] D. M. Hofman and J. M. Maldacena, “Giant Magnons,” J. Phys. **A39:13095-13118**, (2006), hep-th/0604135.
- [66] J. M. Maldacena, “The Illusion of Gravity,” Spektrum Wiss. **2006N3**, 36 (2006).
- [67] A. Dymarsky, S. Gubser, Z. Guralnik and J. M. Maldacena, “Calibrated Surfaces and Supersymmetric Wilson Loops,” JHEP **0609:057**, (2006) hep-th/0604058.
- [68] I. R. Klebanov, J. Maldacena and C. B. Thorn, “Dynamics of Flux Tubes in Large N Gauge Theories,” JHEP **0604:024**, (2006) hep-th/0602255.
- [69] J. Kinney, J. Maldacena, S. Minwalla and S. Raju, “An Index for 4 Dimensional Super Conformal Theories,” Commun. Math. Phys. **275**, 209 (2007), hep-th/0510251.
- [70] H. Lin and J. Maldacena, “Fivebranes from Gauge Theory,” Phys. Rev. **D74:084014**, (2006) hep-th/0509235.
- [71] J. Maldacena and N. Seiberg, “Flux-Vacua in Two Dimensional String Theory,” JHEP **0509**, 077 (2005) hep-th/0506141.
- [72] J. Maldacena, “Long Strings in Two Dimensional String Theory and Non-Singlets in the Matrix Model,” JHEP **0509** 078 (2005), Int. J. Geom. Meth. Mod. Phys. 3:1-36 (2006) hep-th/0503112.
- [73] O. Lunin and J. Maldacena, “Deforming Field Theories with $U(1) \times U(1)$ Global Symmetry and Their Gravity Duals,” JHEP **0505** 033 (2005) hep-th/0502086.
- [74] J. L. Karczmarek, J. Maldacena and A. Strominger, “Black Hole Non-Formation in the Matrix Model,” JHEP **0601** 039 (2006) hep-th/0411174.
- [75] H. Lin, O. Lunin and J. Maldacena, “Bubbling AdS Space and 1/2 BPS Geometries,” JHEP **0410**, 025 (2004) hep-th/0409174.

- [76] I. R. Klebanov and J. M. Maldacena, “Superconformal Gauge Theories and Non-Critical Superstrings,” *Int. J. Mod. Phys. A* **19**, 5003 (2004) hep-th/0409133.
- [77] J. Maldacena, G. W. Moore, N. Seiberg and D. Shih, “Exact vs. Semiclassical Target Space of the Minimal String,” *JHEP* **0410**, 020 (2004) hep-th/0408039.
- [78] J. Maldacena and L. Maoz, “Wormholes in AdS,” *JHEP* **0402**, 053 (2004) hep-th/0401024.
- [79] G. T. Horowitz and J. Maldacena, “The Black Hole Final State,” *JHEP* **0402**, 008 (2004) hep-th/0310281.
- [80] J. M. Maldacena, “TASI 2003 Lectures on AdS/CFT,” presented at *Theoretical Advanced Study Institute in Elementary Particle Physics (TASI 2003): Recent Trends in String Theory, Boulder, Colorado, 1-27 Jun 2003*, and published in *Boulder 2003, Progress in string theory*, pp. 155-203, hep-th/0309246.
- [81] I. R. Klebanov, J. Maldacena and N. Seiberg, “Unitary and Complex Matrix Models as 1-D Type 0 Strings,” *Commun. Math. Phys.* **252**, 275 (2004) hep-th/0309168.
- [82] S. Kachru, R. Kallosh, A. Linde, J. Maldacena, L. McAllister and S. P. Trivedi, “Towards Inflation in String Theory,” *JCAP* **0310**, 013 (2003) hep-th/0308055.
- [83] M. R. Douglas, I. R. Klebanov, D. Kutasov, J. Maldacena, E. Martinec and N. Seiberg, “A New Hat for the $C = 1$ Matrix Model,” in *Shifman, M. (ed.) et al.: From Fields to Strings, Vol. 3, pp. 1758-1827*, hep-th/0307195.
- [84] J. L. Karczmarek, H. Liu, J. Maldacena and A. Strominger, “UV Finite Brane Decay,” *JHEP* **0311**, 042 (2003) hep-th/0306132.
- [85] I. R. Klebanov, J. Maldacena and N. Seiberg, “D-Brane Decay in Two-Dimensional String Theory,” *JHEP* **0307**, 045 (2003) hep-th/0305159.
- [86] N. Lambert, H. Liu and J. Maldacena, “Closed Strings from Decaying D-branes,” *JHEP* **0703**, 014 (2007), hep-th/0303139.
- [87] O. Lunin, J. Maldacena and L. Maoz, “Gravity Solutions for the D1-D5 System with Angular Momentum,” hep-th/0212210.
- [88] J. Maldacena, M. M. Sheikh-Jabbari and M. Van Raamsdonk, “Transverse Five-branes in Matrix Theory,” *JHEP* **0301**, 038 (2003) hep-th/0211139].
- [89] J. Maldacena, “Non-Gaussian Features of Primordial Fluctuations in Single Field Inflationary Models,” *JHEP* **0305**, 013 (2003) astro-ph/0210603.
- [90] N. Berkovits and J. Maldacena, “ $N = 2$ Superconformal Description of Superstring in Ramond-Ramond Plane Wave Backgrounds,” *JHEP* **0210**, 059 (2002) hep-th/0208092.
- [91] J. Maldacena and L. Maoz, “Strings on PP-Waves and Massive Two Dimensional Field Theories,” *JHEP* **0212**, 046 (2002) hep-th/0207284.

- [92] D. Berenstein, E. Gava, J. M. Maldacena, K. S. Narain and H. Nastase, “Open Strings on Plane Waves and Their Yang-Mills Duals,” hep-th/0203249.
- [93] D. Berenstein, J. M. Maldacena and H. Nastase, “Strings in Flat Space and PP Waves from $N = 4$ Super Yang Mills,” JHEP **0204**, 013 (2002) hep-th/0202021.
- [94] J. Maldacena and H. Ooguri, “Strings in AdS(3) and the SL(2,R) WZW model III: Correlation Functions,” Phys. Rev. D **65**, 106006 (2002) hep-th/0111180.
- [95] J. Maldacena, G. Moore and N. Seiberg, “D-brane Charges in Five-brane Backgrounds,” JHEP **0110**, 005 (2001) hep-th/0108152.
- [96] J. Maldacena, G. Moore and N. Seiberg, “D-brane Instantons and K-theory Charges,” JHEP **0111**, 062 (2001) hep-th/0108100.
- [97] J. M. Maldacena, “Eternal Black Holes in Anti-de-Sitter,” JHEP **0304**, 021 (2003) hep-th/0106112.
- [98] J. Maldacena and H. Nastase, “The Supergravity Dual of a Theory with Dynamical Supersymmetry Breaking,” JHEP **0109**, 024 (2001) hep-th/0105049.
- [99] J. Maldacena, G. Moore and N. Seiberg, “Geometrical Interpretation of D-branes in Gauged WZW Models,” JHEP **0107**, 046 (2001) hep-th/0105038.
- [100] J. Maldacena and L. Maoz, “De-singularization by Rotation,” JHEP **0212**, 055 (2002) hep-th/0012025.
- [101] M. Atiyah, J. Maldacena and C. Vafa, “An M-theory Flop as a Large N Duality,” J. Math. Phys. **42**, 3209 (2001) hep-th/0011256.
- [102] J. M. Maldacena and C. Nunez, “Towards the Large N Limit of Pure $N = 1$ Super Yang Mills,” Phys. Rev. Lett. **86**, 588 (2001) hep-th/0008001.
- [103] J. Maldacena and C. Nunez, “Supergravity Description of Field Theories on Curved Manifolds and a No Go Theorem,” Int. J. Mod. Phys. A **16**, 822 (2001) hep-th/0007018.
- [104] I. R. Klebanov and J. Maldacena, “1+1 Dimensional NCOS and its U(N) Gauge Theory Dual,” Int. J. Mod. Phys. A **16**, 922 (2001) Adv. Theor. Math. Phys. **4**, 283 (2000) hep-th/0006085.
- [105] J. Maldacena, H. Ooguri and J. Son, “Strings in AdS(3) and the SL(2,R) WZW Model II: Euclidean Black Hole,” J. Math. Phys. **42**, 2961 (2001) hep-th/0005183.
- [106] R. Gopakumar, J. Maldacena, S. Minwalla and A. Strominger, “S-duality and Non-commutative Gauge Theory,” JHEP **0006**, 036 (2000) hep-th/0005048.
- [107] R. Dijkgraaf, J. Maldacena, G. Moore and E. Verlinde, “A Black Hole Farey Tail,” hep-th/0005003.

- [108] S. Hawking, J. Maldacena and A. Strominger, “DeSitter Entropy, Quantum Entanglement and AdS/CFT,” JHEP **0105**, 001 (2001) hep-th/0002145.
- [109] J. Maldacena and H. Ooguri, “Strings in AdS(3) and SL(2,R) WZW Model I: The Spectrum,” J. Math. Phys. **42**, 2929 (2001) hep-th/0001053.
- [110] J. M. Maldacena and J. G. Russo, “Large N Limit of Noncommutative Gauge Theories,” JHEP **9909**, 025 (1999) hep-th/9908134.
- [111] O. Aharony, S.S. Gubser, J. Maldacena, H. Ooguri and Y. Oz, “Large N Field Theories, String Theory and Gravity,” Phys. Rept. **323**, 183 (2000) hep-th/9905111.
- [112] J. Maldacena, G. Moore and A. Strominger, “Counting BPS Black Holes in Toroidal Type-II String Theory,” hep-th/9903163.
- [113] J. Maldacena, J. Michelson and A. Strominger, “Anti-de Sitter Fragmentation,” JHEP **9902**, 011 (1999) hep-th/9812073.
- [114] D. Berenstein, R. Corrado, W. Fischler and J. Maldacena, “The Operator Product Expansion for Wilson Loops and Surfaces in the Large N Limit,” Phys. Rev. D **59**, 105023 (1999) hep-th/9809188.
- [115] O. Aharony, A. Fayyazuddin and J. Maldacena, “The Large N Limit of N=2, N=1 Field Theories from Three-branes in F Theory,” JHEP **07**, 013 (1998) hep-th/9806159.
- [116] J. Maldacena and A. Strominger, “AdS(3) Black Holes and a Stringy Exclusion Principle,” JHEP **12**, 005 (1998) JHEP **9812**, 005 (1998) hep-th/9804085.
- [117] J. Maldacena, “Wilson Loops in Large N Field Theories,” Phys. Rev. Lett. **80**, 4859 (1998) hep-th/9803002.
- [118] N. Itzhaki, J.M. Maldacena, J. Sonnenschein and S. Yankielowicz, “Supergravity and the Large N Limit of Theories with Sixteen Supercharges,” Phys. Rev. **D58**, 046004 (1998) hep-th/9802042.
- [119] J. Maldacena and A. Strominger, “Statistical Entropy of de Sitter Space,” JHEP **02**, 014 (1998) gr-qc/9801096.
- [120] J. Maldacena, “The Large N Limit of Superconformal Field Theories and Supergravity,” Adv. Theor. Math. Phys. **2**, 231 (1997) hep-th/9711200.
- [121] J. Maldacena, A. Strominger and E. Witten, “Black Hole Entropy in M Theory,” JHEP **12**, 002 (1997) hep-th/9711053.
- [122] J.M. Maldacena and A. Strominger, “Semiclassical Decay of Near Extremal Five-branes,” JHEP **12**, 008 (1997) hep-th/9710014.
- [123] J.M. Maldacena, “Branes Probing Black Holes,” Nucl. Phys. Proc. Suppl. **68**, 17 (1997) hep-th/9709099.

- [124] C.G. Callan and J.M. Maldacena, “Brane Death and Dynamics from the Born-Infeld Action,” Nucl. Phys. **B513**, 198 (1997) hep-th/9708147.
- [125] S. Ferrara and J. Maldacena, “Branes, Central Charges and U Duality Invariant BPS Conditions,” Class. Quant. Grav. **15**, 749 (1997) hep-th/9706097.
- [126] J.M. Maldacena, “Black Holes and D-branes,” Nucl. Phys. Proc. Suppl. **61A**, 111 (1997) hep-th/9705078.
- [127] J. Maldacena, “Probing Near Extremal Black Holes with D-branes,” Phys. Rev. **D57**, 3736 (1998) hep-th/9705053.
- [128] J. Maldacena and A. Strominger, “Universal Low-energy Dynamics for Rotating Black Holes,” Phys. Rev. **D56**, 4975 (1997) hep-th/9702015.
- [129] J.M. Maldacena, “N=2 Extremal Black Holes and Intersecting Branes,” Phys. Lett. **B403**, 20 (1997) hep-th/9611163.
- [130] J. Maldacena, “D-branes and Near Extremal Black Holes at Low-energies,” Phys. Rev. **D55**, 7645 (1997) hep-th/9611125.
- [131] D.M. Kaplan, D.A. Lowe, J.M. Maldacena and A. Strominger, “Microscopic Entropy of N=2 Extremal Black Holes,” Phys. Rev. **D55**, 4898 (1997) hep-th/9609204.
- [132] J. Maldacena and A. Strominger, “Black Hole Grey Body Factors and D-brane Spectroscopy,” Phys. Rev. **D55**, 861 (1997) hep-th/9609026.
- [133] J.M. Maldacena, “Black Holes in String Theory,” hep-th/9607235.
- [134] J.M. Maldacena, “Statistical Entropy of Near Extremal Five-branes,” Nucl. Phys. **B477**, 168 (1996) hep-th/9605016.
- [135] J.M. Maldacena and L. Susskind, “D-branes and Fat Black Holes,” Nucl. Phys. **B475**, 679 (1996) hep-th/9604042.
- [136] G.T. Horowitz, D.A. Lowe and J.M. Maldacena, “Statistical Entropy of Nonextremal Four-dimensional Black Holes and U Duality,” Phys. Rev. Lett. **77**, 430 (1996) hep-th/9603195.
- [137] G.T. Horowitz, J.M. Maldacena and A. Strominger, “Nonextremal Black Hole Microstates and U Duality,” Phys. Lett. **B383**, 151 (1996) hep-th/9603109.
- [138] J.M. Maldacena and A. Strominger, “Statistical Entropy of Four-dimensional Extremal Black Holes,” Phys. Rev. Lett. **77**, 428 (1996) hep-th/9603060.
- [139] C.G. Callan and J.M. Maldacena, “D-brane Approach to Black Hole Quantum Mechanics,” Nucl. Phys. **B472**, 591 (1996) hep-th/9602043.
- [140] S.S. Gubser, A. Hashimoto, I.R. Klebanov and J.M. Maldacena, “Gravitational Lensing by P-branes,” Nucl. Phys. **B472**, 231 (1996) hep-th/9601057.

- [141] C.G. Callan, J.M. Maldacena and A.W. Peet, “Extremal Black Holes as Fundamental Strings,” Nucl. Phys. **B475**, 645 (1996) hep-th/9510134.
- [142] J.M. Maldacena and A.W. Ludwig, “Majorana Fermions, Exact Mapping Between Quantum Impurity Fixed Points with Four Bulk Fermion Species, and Solution of the ‘Unitarity Puzzle’,” Nucl. Phys. **B506**, 565 (1995) cond-mat/9502109.
- [143] C.G. Callan, I.R. Klebanov, J.M. Maldacena and A. Yegulalp, “Magnetic Fields and Fractional Statistics in Boundary Conformal Field Theory,” Nucl. Phys. **B443**, 444 (1995) hep-th/9503014.
- [144] C.G. Callan, I.R. Klebanov, A.W. Ludwig and J.M. Maldacena, “Exact Solution of a Boundary Conformal Field Theory,” Nucl. Phys. **B422**, 417 (1994) hep-th/9402113.
- [145] G. Aldazabal, M. Bonini and J.M. Maldacena, “Factorization and Discrete States in $C = 1$ SuperLiouville Theory,” Int. J. Mod. Phys. **A9**, 3969 (1994) hep-th/9209010.
- [146] G. Aldazabal and J.M. Maldacena, “On the Quantization of the $N=2$ Supersymmetric Nonlinear Sigma Model,” Int. J. Mod. Phys. **A8**, 3359 (1993) hep-th/9203036.

(updated June 14, 2011)