

Curriculum Vitae

JUAN MARTÍN MALDACENA

Personal

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Education and Professional Experience

- 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 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

- 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 A. Zhiboedov, “Constraining Conformal Field Theories with a Higher Spin Symmetry,” hep-th/1112.1016.
- [2] J. Maldacena, “The Gauge/Gravity Duality,” hep-th/1106.6073.
- [3] J. Maldacena, “Einstein Gravity from Conformal Gravity,” hep-th/1105.5632.
- [4] J. M. Maldacena, G. L. Pimentel, “On graviton non-Gaussianities During Inflation,” JHEP **1109**, 045 (2011), hep-th/1104.2846.
- [5] D. Gaiotto, J. Maldacena, A. Sever, P. Vieira, “Pulling the Straps of Polygons,” JHEP **1112**, 011 (2011), hep-th/1102.0062.
- [6] J. Maldacena, “Vacuum Decay into Anti de Sitter Space,” hep-th/1012.0274.
- [7] D. Gaiotto, J. Maldacena, A. Sever, P. Vieira, “Bootstrapping Null Polygon Wilson Loops,” JHEP **1103**, 092 (2011), hep-th/1010.5009.
- [8] J. Maldacena, A. Zhiboedov, “Form Factors at Strong Coupling via a Y-system,” JHEP **1011**, 104 (2010), hep-th/1009.1139.
- [9] 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.
- [10] 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.
- [11] L. F. Alday, J. Maldacena, A. Sever, P. Vieira, “Y-system for Scattering Amplitudes,” J. Phys. A **A43**, 485401 (2010), hep-th/1002.2459.
- [12] L. F. Alday, D. Gaiotto, J. Maldacena, “Thermodynamic Bubble Ansatz,” JHEP **1109**, 032 (2011), hep-th/0911.4708.
- [13] 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.
- [14] D. Gaiotto, J. Maldacena, “The Gravity Duals of N=2 Superconformal Field Theories,” hep-th/0904.4466.
- [15] 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.
- [16] L. F. Alday, J. Maldacena, “Minimal Surfaces in AdS and the Eight-gluon Scattering Amplitude at Strong Coupling,” hep-th/0903.4707.

- [17] I. R. Klebanov, J. M. Maldacena, “Solving Quantum Field Theories via Curved Spacetimes,” *Phys. Today* **62**, 28-33 (2009).
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- [25] L. F. Alday and J. Maldacena, “Comments on Gluon Scattering Amplitudes via AdS/CFT,” *JHEP* **0711**, 068 (2007), *hep-th/0710.1060*.
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