

## Curriculum Vitae

1. **Name:** SANDIP P. TRIVEDI

2. **Mailing Address:**

Associate Professor

Department of Theoretical Physics

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3. **Date of Birth:** April 5, 1963

4. **Nationality:** Indian

4. **Educational Qualifications:**

M.Sc., Physics (Integrated), June 1985

Indian Institute of Technology, Kanpur

Ph.D., Theoretical Physics, June 1990

California Institute of Technology, Pasadena, California

Advisor: Professor John Preskill

5(a). **Professional Training:**

Post-Doctoral Research Associate, August 1990 to August 1992

Institute for Advanced Study

Princeton, New Jersey, U.S.A.

John A. McCone Research Fellow, September 1992 to August 1994

Department of Physics,, California Institute of Technology

Pasadena California, U.S.A.

5(b). **Employment**

Associate Scientist, September 1994 to February 1999  
Department of Theoretical Physics  
Fermi National Accelerator Laboratory  
Batavia, Illinois, U.S.A.

Reader, February 1999 to February 2002  
Department of Theoretical Physics    Tata Institute of Fundamental Research, Mumbai.

Associate Professor, February 2002  
Department of Theoretical Physics  
Tata Institute of Fundamental Research, Mumbai

6. **Awards**

National Talent Scholarship, Government of India, 1980-85.

John A. McCone Post-Doctoral Research Fellow (Caltech, 1992-94)

Swarnajayanti Fellowship 2002, Department of Science and Technology  
Government of India.

Shanti Swarup Bhatnagar Award in The Physical Sciences, CSIR,  
Government of India, 2005

7. **Professional Recognition**

Editor, Annals of Physics

Fellow, Indian Academy of Sciences, 2005-

8 (a). **Invited Lecture Courses :**

Two Invited Lectures on “Flux Compactifications”, at the National Workshop on String Theory, IIT Kanpur, India, December 2003.

Invited Lecturer for a Course on “Flux Compactifications and deSitter Vacua” at the March School for String Theory at the International Center for Theoretical Physics, March-April, 2003.

Lectures on “Branes and Large Extra Dimensions”, XVI SERC School on Theoretical High Energy Physics held at the Harish-Chandra Research Institute, Allahabad, February–March, 2001

8(b). **Invited Talks :**

Invited Plenary Talk, “Supersymmetry 06”, Irvine, U.S.A., June 2006.

Invited Talk, “Workshop on Black Holes and Topological Strings”, Munich, April 2006.

Invited Talk, “Einstein Millenium Conference”, Puri, December 2005.

Invited Talk, ”Strings 05”, I.I.T. Kanpur, October, 2005

Invited Plenary Talk, “Superstring Phenomenology 05”, Munich, Germany, June 2005.

Invited Talk, “Third Regional Meeting on String Theory”, Crete Greece, June 2005.

Invited Talk, ”Pascos 05”, March 05, Korea, 2005.

Invited Plenary Talk at the 37th Anhrenshoop Conference, Berlin, Germany, August 2004.

Invited Talk at the Conference on Superstring Phenomenology, Ann Arbor, Michigan, USA, August, 2004.

Invited Talk at the Workshop “Strings at CERN”, CERN, July 2004.

Invited Talk at the International Conference on String Theory, “ Strings 2004”, Paris, June 2004.

Invited Talk at the Conference of “International Workshop on Superstrings and Cosmology”, KITP, Santa Barbara, U.S.A. October 2003.

Chaired Session on Aspects of Compactifications, at the International Strings Conference, Strings 2003, Kyoto Japan. July 2003.

Invited Talk, International Workshop on “Cosmological Perturbations on the Brane”, DAMTP, Cambridge, U.K. July 2003.

Invited Lectures at the Second Regional Crete Conference on Superstrings, Crete, Greece. May 2003.

Invited Plenary talk at the IX International Conference on Particles Strings and Cosmology, January 2003 TIFR, Mumbai, India.

Invited Talk at the Workshop on String Theory, Newton Institute of Mathematical Sciences, Cambridge, U.K., February, 2002.

Invited Talk at the International Conference on Strings, Strings 2001, TIFR, Mumbai, India, January, 2001.

Invited Talk at the National Workshop on String Theory, Bangalore, India, December 1999

Invited Conference at the International Workshop on High Energy Physics and Phenomenology, WHEPP, Chennai, India, December 1999

Invited Talk at the Conference on Black Holes and String Theory, ICTP, Trieste, July 1999.

Invited Talk, International Conference on Supersymmetries in Physics (SUSY 99), Fermi National Accelerator Laboratory, Batavia, Illinois, June 1999.

Invited Talk at the International Conference on Particles, Strings and Cosmology, Pascos 98, Northeastern University, Boston, U.S.A., March 1999.

Invited Talk, workshop on “Dynamical Supersymmetry Breaking”, Weizmann Institute of Science, Israel, 1997.

Invited Talk on, “Gauge Mediated Supersymmetry Breaking”, Conference on Very Large Hadron Collider, Fermilab, U.S.A., 1996

Invited Talk, Conference on Black Hole Physics, University of California Santa Barbara, U.S.A., April 1992.

## 9. Complete List of Publications

1. **Rotating Attractors**, D. Astefanesei, K. Goldstein, R. P. Jena, A. Sen and S. P. Trivedi, arXiv:hep-th/0606244.
2. **Time dependent cosmologies and their duals**, S. R. Das, J. Michelson, K. Narayan and S. P. Trivedi, Accepted for Publication in Phys. Rev. D., arXiv:hep-th/0602107.
3. **A C-function for non-supersymmetric attractors**, K. Goldstein, R. P. Jena, G. Mandal and S. P. Trivedi, JHEP **0602**, 053 (2006) [arXiv:hep-th/0512138].
4. **Non-supersymmetric attractors in string theory**, P. K. Tripathy and S. P. Trivedi, JHEP **0603**, 022 (2006) [arXiv:hep-th/0511117].
5. **Non-supersymmetric attractors**, K. Goldstein, N. Iizuka, R. P. Jena and S. P. Trivedi, Phys. Rev. D **72**, 124021 (2005) [arXiv:hep-th/0507096].
6. **D3 brane action and fermion zero modes in presence of background flux**, P. K. Tripathy and S. P. Trivedi, JHEP **0506**, 066 (2005) [arXiv:hep-th/0503072].
7. **Gaugino condensation and nonperturbative superpotentials in flux compactifications**, L. Gorlich, S. Kachru, P. K. Tripathy and S. P. Trivedi, JHEP **0412**, 074 (2004) [arXiv:hep-th/0407130].
8. **An Inflationary Model in String Theory**, N. Iizuka, S. P. Trivedi, **Phys.Rev. D70:043519,2004**.
9. **Flux Compactifications on Calabi-Yau Threefolds**, A. Giriyavets, S. Kachru, P. K. Tripathy and S. P. Trivedi, JHEP **0404**, 003 (2004) [arXiv:hep-th/0312104].
10. **Towards Inflation in String Theory** S. Kachru, R. Kallosh A. Linde, J. Maldacena, L. McAllister and S. P. Trivedi, **JCAP** 0310:013, 2003.
11. **deSitter Vacua in String Theory**, S. Kachru, R. Kallosh, A. Linde, S. P. Trivedi, **Phys Rev D** 68 046005 (2003).
12. **Compactification With Flux on K3 and Tori**, P. K. Tripathy and S. P. Trivedi, **JHEP**, 0303:028,2003,
13. **New Supersymmetric String Compactifications**, S. Kachru, M. B. Schulz, P. K. Tripathy, S. P. Trivedi, **JHEP** 0303:061,2003.
14. **Supersymmetry Changing Bubbles in String Theory**, S. Kachru, X. Liu, M. B. Schulz and S. P. Trivedi, **JHEP** 05:014, 2003,
15. **Moduli Stabilisation From Fluxes in a Simple IIB Orientifold**, S. Kachru, M. B. Schulz and S. P. Trivedi, **JHEP** 0310:007 (2003).

16. **Supergravity Coupling to Noncommutative Branes, Open Wilson Lines and Generalised Star Products**, S. R. Das and S. P. Trivedi, **JHEP** 0102:046,2001,
17. **Magnetic Moments of Branes and Giant Gravitons** , S. Das, S. P. Trivedi and S. Vaidya, **JHEP**, 0102:046; hep-th/0008203.
18. **Fuzzy Cosets And Their Gravity Duals** , S. P. Trivedi and S. Vaidya, **JHEP**, 0009:041,2000, hep-th/0007011.
19. **Supergravity With Self Dual B Fields And Instantons In Noncommutative Gauge Theory** **JHEP**, S. R. Das, S. Kalyana Rama and S. P. Trivedi, 0003:004,2000; hep-th/9911137.
20. **Discrete Flux As Quantum Hair**, A. Dabholkar and S. P. Trivedi, **JHEP** 9910:033,1999 ; hep-th/9908077.
21. **The Coulomb Branch of Gauge Theory from Rotating Branes**, P. Kraus, F. Larsen and S. P. Trivedi, **JHEP**, 9903, 003, 1999; hep-th/9811120.
22. **Holographic Probes of Anti-De Sitter Space-Times**, V. Balasubramanian, P. Kraus, A. Lawrence and S. P. Trivedi, **Phys. Rev. D** 59, 104021, 1999; hep-th/9808017.
23. **Branes with GUTS and Supersymmetry Breaking**, J. Lykken, E. Poppitz and S. P. Trivedi, **Nucl. Phys. B** 543, 105, 1999; hep-th/9806080.
24. **Three Brane Action and The Correspondence Between  $N = 4$  Yang Mills Theory and Anti-De Sitter Space**, S. R. Das and S. P. Trivedi, **Phys. Lett. B** 445, 142, 1998; hep-th/9804149.
25. **M(ore) on Chiral Gauge Theories from D-Branes**, J. Lykken, E. Poppitz and S. P. Trivedi, **Nucl. Phys. B** 520, 51, 1998; hep-th/9712193.
26. **Chiral Gauge Theories from D-Branes** J. Lykken, E. Poppitz and S. P. Trivedi, **Phys. Lett. B** 416, 286, 1998; hep-th/9708134.
27. **Some Remarks on Gauge Mediated Supersymmetry Breaking**, E. Poppitz and S. P. Trivedi, **Phys. Lett. B** 401, 38, 1997; hep-ph/970324.
28. **New Models of Gauge and Gravity Mediated Supersymmetry breaking**, E. Poppitz and S. P. Trivedi, **Phys. Rev. D** 55, 5508, 1997; hep-ph/9609529.
29. **Supersymmetry Breaking and Duality in  $SU(N) \times SU(N-M)$  Theories**, E. Poppitz, Y. Shadmi and S. P. Trivedi, **Phys. Lett. B** 388, 561, 1996; hep-th/9606184.

30. **Duality and Exact results in Product Group Theories.** E. Poppitz, Y. Shadmi and S. P. Trivedi, **Nucl. Phys.** B480, 125 1996; hep-th/9605113.
31. **Some Examples of Chiral Moduli Spaces and Dynamical Supersymmetry Breaking,** E. Poppitz and S. P. Trivedi, **Phys. Lett.** B365, 125, 1996; hep-th/9507169.
32. **Gluon Fragmentation into Polarised Charmonium ,** P. Cho, S. P. Trivedi and M. B. Wise, **Phys. Rev.** D51, 2039, 1995; hep-ph/9408352.
33. **Dynamical Supersymmetry Breaking,** E. Poppitz and S. P. Trivedi, **Annual Reviews of Nuclear and Particle Science**, Vol 48, 1998, edited by C. Quigg, V. Luth and P. Paul; hep-th/ 9803107.
34. **Black Hole Thermodynamics and Information Loss in Two Dimensions ,** T. M. Fiola, J. Preskill, A. Strominger and S. P. Trivedi, **Phys. Rev.** D50, 3987, 1994; hep-th/9403137.
35. **Strong Decays Of Strange Heavy P-wave Mesons.,** P. Cho and S. P. Trivedi, **Phys. Rev.** D50, 381 (1994).
36. **Information Consumption by Reissner-Nordstrom Black Holes,** A. Strominger and S. P. Trivedi, **Phys. Rev.** D48, 5778 (1993).
37. **Semiclassical Extremal Black Holes,** S. P. Trivedi, **Phys. Rev.** D47, 4233 (1993).
38. **Dual Dilaton Dyons ,** A. Shapere, S. P. Trivedi and F. Wilczek, **Mod. Phys. Lett.** A6, 2677 (1991).
39. **Limitations on the Statistical Description of Black Holes ,** J. Preskill, P. Schwarz, A. Shapere, S. P. Trivedi and F. Wilczek, **Mod. Phys. Lett.** A6, 2353 (1991).
40. **Cosmology and Broken Discrete Symmetry ,** J. Preskill, S. P. Trivedi, F. Wilczek and M. B. Wise, **Nucl. Phys.** B363, 207 (1991).
41. **Effective Lagrangian for the Electric Dipole Moment of the Neutron,** G. Boyd, A. K. Gupta, S. P. Trivedi and M. B. Wise, **Phys. Letts.** B 241, 584 (1990).
42. **Random Surfaces in the Conformal Gauge ,** A. Gupta, S. P. Trivedi and M. B. Wise, **Nucl. Phys.** B340, 475 (1990).

43. **Wormholes in Spacetime and  $\theta_{QCD}$** , J. Preskill, S. P. Trivedi and M. B. Wise, **Phys. Letts. B** 223, 26 (1989).
44. **Operator Product Coefficients in Non-Standard  $SU(2)$  - Wess - Zumino - Witten models**, M. R. Douglas and S. P. Trivedi, **Nucl. Phys. B** 320, 461 (1989).