

## Personal Data

1. *Name:* **Subir Ghosh**
2. *Date of birth:* June 25, 1961
3. *Nationality:* Indian
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7. *Educational qualifications:*
  - (a) Passed **Secondary Examination** in 1977 in 1'st division
  - (b) Passed **Higher Secondary Examination** in 1979 in 1'st division
  - (c) Passed **B.Sc. (Physics)** in 1982 with a 1'st class from Jadavpur University (exam. held in 1983)
  - (d) Passed **M.Sc. (Physics)** in 1984 with a 1'st class from Jadavpur University (exam. held in 1985); special paper: High Energy Physics
  - (e) Completed **Post M.Sc. Associateship Course** in 1986 from Saha Institute of Nuclear Physics, Calcutta
  - (f) Received **Ph.D.** in 1991 from Jadavpur University, research work was carried out in Saha Institute of Nuclear Physics, Calcutta
8. *Title of thesis:* **Aspects of chiral anomalies in quantum field theory**  
Thesis supervisor: Professor Gautam Bhattacharya, S.I.N.P., Calcutta
9. *Professional career:*
  - (a) **Research Associate** at S.I.N.P., Calcutta, during 1991-1992 (June)

- (b) Joined **Gobardanga Hindu College**, West Bengal, under Calcutta University, as a **Lecturer in Physics** , in July 1, 1992, and continued up to June 30, 1997.
- (c) Joined **Dinabandhu Andrews College**, Calcutta 700084, as **Senior Lecturer in Physics** on July 1, 1997, and continued up to September 16, 1999.
- (d) **Joined Physics and Applied Mathematics Unit, Indian Statistical Institute** , Calcutta, as Associate Professor, on September 17, 1999.
- (e) Promoted to Professor on June 1, 2005, and continuing there at present.
- (f) Awarded Regular Associateship, ICTP, Trieste, Italy, for the period 2005-2012.
- (g) Awarded **SERC Visiting Fellowship** by D.S.T., Govt. of India, to work at S.N.Bose National Centre for Basic Sciences, Calcutta, during October, 1996 to January, 1997
- (h) Worked as a referee for Physical Review D15, The European Physical Journal C (Particles and Fields), etc..

(i) *List of publications:*

1. Subir Ghosh, Pinaki Roy; 'Stringy' Coherent States Inspired By Generalized Uncertainty Principle, e-Print: arXiv:1110.5136 [hep-th]
2. A. Berard, Subir Ghosh, Y. Grandati, H. Mohrbach and Probir Pal; Constrained Dynamics of an Anomalous ( $g \neq 2$ ) Relativistic Spinning Particle in Electromagnetic Background. Eur.Phys.J. C71 (2011) 1770 (e-Print: arXiv:1105.4691 [hep-th]).
3. Sudipta Das, Subir Ghosh; Gauge Invariant Extension of Linearized Horava Gravity. arXiv:1104.1975 (accepted in Mod.Phys.Lett A)
4. Subir Ghosh; Black Hole Entropy: From Shannon to Bekenstein, Int.J.Theor.Phys. 50 (2011) 3515-3520 ( arXiv:1008.0946).
5. Sudipta Das, Subir Ghosh; Spontaneous Symmetry Breaking and Landau Phase Transition in Horava Gravity. e-Print: arXiv:1108.2163 [hep-th] (communicated)
6. Sudipta Das, Subir Ghosh, Salvatore Mignemi; Noncommutative Spacetime in Very Special Relativity, Phys.Lett. A375 (2011) 3237-3242 e-Print: arXiv:1004.5356 [hep-th]
7. Subir Ghosh; Planck Scale Effect in the Entropic Force Law. (accepted in Mod.Phys. Lett. A) arXiv:1003.0285
8. Subir Ghosh, Salvatore Mignemi; Quantum mechanics in de Sitter space. Int.J.Theor.Phys. 50 (2011) 1803-1808 ( arXiv:0911.5695 ).
9. Rabin Banerjee, Biswajit Chakraborty , Subir Ghosh , Pradip Mukherjee , Saurav Samanta; Topics in Noncommutative Geometry Inspired Physics; Found.Phys. 39 (2009) 1297-1345 (arXiv:0909.1000).
10. Sudipta Das, Subir Ghosh , Dibakar Roychowdhury; Relativistic Thermodynamics with an Invariant Energy Scale. Phys.Rev. D80 (2009) 125036 (0908.0413).
11. Sudipta Das, Subir Ghosh; Relativistic Spinning Particle and a New Non-Commutative Spacetime. Phys.Rev. D80 (2009) 085009 (arXiv:0907.0290).
12. Subir Ghosh, Probir Pal; The E(2) Particle; Phys.Rev. D80 (2009) 125021 (arXiv:0906.2072).
13. Masud Chaichian, Subir Ghosh, Miklos Langvik, Anca Tureanu, Dirac Quantization Condition for Monopole in Noncommutative Space-Time, Phys.Rev. D79 (2009) 125029 (arXiv:0902.2453.).
14. Sudipta Das, Subir Ghosh, Jan-Willem van Holten, Supratik Pal; Generalized particle dynamics in anti de Sitter spaces: A source for dark energy, Int.J.Mod.Phys.D 20 (2011) 1235 ( arXiv:0906.1044).

15. Sudipta Das, Subir Ghosh, Jan-Willem van Holten, Supratik Pal, Generalized particle dynamics: modifying the motion of particles and branes, JHEP 0904 (2009) 115 (arXiv:0902.2304 ).
16. Sudipta Das, Subir Ghosh, Spectral Discontinuities in Constrained Dynamical Models, J.Phys.A: Math. Theor. 42 (2009) 345401 (arXiv:0812.3512 ).
17. Subir Ghosh, Combining the tunneling and anomaly phenomena in deriving the gravitational anomaly; Mod.Phys.Lett. A24 (2009) 2639-2648 (arXiv:0804.2999 ).
18. Subir Ghosh, Sujoy Kumar Modak, Classical oscillator with position-dependent mass in a complex domain, Phys.Lett. A373 (2009) 1212-1217 (arXiv:0803.2531 ).
19. Pierre Gosselin , Alain Berard, Herve Mohrbach and Subir Ghosh, Berry Curvature in Graphene: A New Approach. Eur.Phys.J. C59 (2009) 883-889 (arXiv:0802.3565).
20. Comment on Magnetic Monopole Excitations in Spin Ice. Subir Ghosh e-Print: arXiv:0801.3134
21. Three-dimensional noncommutative bosonization Physics Letters B, In Press, Corrected Proof, Available online 4 March 2008 Rabin Banerjee, Subir Ghosh and T. Shreecharan
22. Subir Ghosh and Bibhas Ranjan Majhi, Crypto-Harmonic Oscillator in Higher Dimensions: Classical and Quantum Aspects, J. Phys. A: Math. Theor. 41 (2008) 065306 (11pp) arXiv:0709.4325
23. Pierre Gosselin, Alain Berard, Herve Mohrbach and Subir Ghosh, Berry Phase Effects in the dynamics of Dirac Electrons in Doubly Special Relativity Framework, Phys.Lett. B 660 (2008) 267-274 (arXiv:0709.0579)
24. Subir Ghosh, Reply to Comment by J.A.Garcia, arXiv:0705.0143, arXiv:0705.0586
25. Subir Ghosh and Probir Pal, Deformed Special Relativity and Deformed Symmetries in a Canonical Framework, Phys.Rev.D75 (2007)105021, (arXiv:hep-th/0702159)
26. S.Dhar, B.Basu and Subir Ghosh, Spin Hall Effect For Anyons, Phys.Lett. A371 (2007) 406-409 (arXiv:cond-mat/0701096)
27. Rabin Banerjee, Subir Ghosh and Shailesh Kulkarni, Remarks on the Generalized Chaplygin Gas Phys.Rev. D75 (2007) 025008 (arXiv:gr-qc/0611131)
28. Subir Ghosh, A Lagrangian for DSR Particle and the Role of Noncommutativity, Phys.Rev. D74 (2006) 084019 (arXiv:hep-th/0608206)
29. B. Basu, Subir Ghosh and S. Dhar, Noncommutative Geometry and Geometric Phases Europhys.Lett. 76 (2006) 395-401 (arXiv:hep-th/0604068 )
30. Subir Ghosh, Study of the "Non-Abelian" Current Algebra of a Non-linear  $\sigma$ -Model, Phys.Lett. B 640 (2006) 64-67 (arXiv:hep-th/0603128)

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32. Subir Ghosh, A Novel "Magnetic" Field And Its Dual Non-Commutative Phase Space, *Phys.Lett. B* 638 (2006)350 (arXiv:hep-th/0511302)
33. Subir Ghosh and Probir Pal, Lie Particle And Its Batalin-Tyutin Extension, *Phys.Lett. B* 633 (2006) 397-403 (arXiv:hep-th/0510038)
34. Rabin Banerjee and Subir Ghosh, Chaplygin Gravitodynamics *Mod.Phys.Lett. A* 21 (2006) 1511-1517 (arXiv:gr-qc/0508021)
35. Subir Ghosh, The *AdS* particle, *Phys.Lett. B* 623 (2005) 251-257 (arXiv:hep-th/0506084)
36. B. Basu and Subir Ghosh, Quantum Hall Effect In Bilayer Systems And The Noncommutative Plane: A Toy Model Approach, *Phys.Lett. A* 346 (2005) 133-140 (arXiv:cond-mat/0503266)
37. Subir Ghosh and Probir Pal,  $\kappa$ -Minkowski Spacetime Through Exotic "Oscillator" *Phys.Lett. B* 618 (2005) 243-251 (arXiv:hep-th/0502192)
38. Subir Ghosh, Extended Space Duality in the Noncommutative Plane, *Phys.Lett. B* 601 (2004) 93-98 (arXiv:hep-th/0409138)
39. S.Ghosh, NONCOMMUTATIVITY IN MAXWELL-CHERN-SIMONS-MATTER THEORY SIMULATES PAULI MAGNETIC COUPLING, **Mod.Phys.Lett.A 20 1227-1237 (2005)** (hep-th/0407086).
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91. R.Banerjee and S.Ghosh, THE GAUSS OPERATOR IN ANOMALOUS GAUGE THEORIES: A HAMILTONIAN FORMULATION, **Mod. Phys. Lett. A4** 855(1989).
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