

## Faculty Profile



**Name:** Dr. T. Shreecharan

**Designation:** Asst professor

**Teaching Areas:** Mechanics, Mathematical Physics, Numerical Methods

**Research Interest:** Quantum field theory and Quantum Computation

**Education:** Ph.D. Physical Research Laboratory/University of Hyderabad, 2006

M.Sc. (Physics) University of Hyderabad 1999

B.Sc. (Physics) University of Madras (Loyola College) 1996

### Professional Experience: 6years

1. Faculty of Science and Technology, ICFAI-IFHE, Hyderabad, Andhra Pradesh, India.  
Assistant Professor (Physics) (1 March 2013 - Present)
2. Central University of Tamil Nadu, Thiruvavur, Tamil Nadu, India.  
Assistant Professor (Physics) ( Aug 2012 - Feb 2013)
3. School of Physics, University of Hyderabad, Hyderabad, Andhra Pradesh, India.  
Dr. D. S. Kothari Post-Doctoral Fellow, UGC-India (Sep 2010 - Jul 2012)
4. Center for High Energy Physics, Indian Institute of Science, Bengaluru, Karnataka, India.  
Post-Doctoral Fellow (Jan 2010 - Sep 2010)
5. The Institute of Mathematical Sciences, Chennai, Tamil Nadu, India.  
Post-Doctoral Fellow (Sep 2007 - Dec 2009)
6. Theoretical Physics Division, Physical Research Laboratory, Ahmedabad, Gujarat, India.  
Post-Doctoral Fellow (Jan 2006 - May 2007)

### Research Publications:

1. B. A. Bambah, C. Mukku, T. Shreecharan, K. Siva Prasad, Entanglement in a model for Hawking radiation: An Application of Quadratic Algebras, Ann. Phys. 330 (2013) 201-219.
2. Sumit K. Garg, T. Shreecharan, P. K. Das, N. G. Deshpande, G. Rajasekaran, TeV scale implications of non-commutative space time in laboratory frame with polarized beams, J. High Energy Phys. 1107 (2011) 024.
3. T. Shreecharan, K. V. S. Shiv Chaitanya, Aspects of coherent states of nonlinear algebras, J. Math. Phys. 51 (2010) 123511.
4. T. R. Govindarajan, Pramod Padmanabhan, T. Shreecharan, Beyond fuzzy spheres, J. Phys. A 43 (2010) 205203.
5. T. Shreecharan, P. K. Panigrahi, J. Banerji, Coherent states for solvable potentials, Phys. Rev. A 69 (2004) 12102.