

## Faculty Profile



**Name:** Dr. T. Shreecharan

**Designation :** Assistant Professor

**Teaching Areas:** Engineering Physics 1 & 2

**Research Interests:** Mathematical Physics.

**Projects:** Currently working on a SERB Project titled “Non-linear algebra and Lie algebroid approaches to quantum field theories”.

### Education:

Ph.D. Physical Research Laboratory, Ahmedabad, 2006.

M. Sc. (Physics) University of Hyderabad, Hyderabad, 1999.

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

### Professional Experience (Total: Inclusive of Teaching and Industrial)

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

### Research / Selected 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.
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.