

Dr. Suman Ghosh  
Assistant Professor  
Department of Physics  
Indira Gandhi National Tribal University  
Amarkantak, Madhya Pradesh - 484887, India  
Ph no : +91 -9433907900,  
e-mail: [smnphy@gmail.com](mailto:smnphy@gmail.com) , [suman.ghosh@igntu.ac.in](mailto:suman.ghosh@igntu.ac.in)



Since 19/05/2017	Assistant Professor, Department of Physics, IGNTU
August, 2015 - August, 2016	Visiting Fellow, DAA, TIFR, Mumbai
July, 2013 - July, 2015	PDRA-II, DTS, SN Bose Centre, Kolkata
March, 2011 - June, 2013	Research Associate, SoP, IISER Thiruvananthapuram
Ph.D. in Physics July, 2005 - Feb, 2011 (Thesis defended on 07/07/2011)	Indian Institute of Technology Kharagpur, India Title- Warped cosmological brane-worlds: geometry, geodesics and particle creation Advisor: Prof. Sayan Kar
M.Sc. in Physics (2004) B.Sc. with Physics Hons (2002)	University of Burdwan, West Bengal, India Hooghly Mohsin College, University of Burdwan

#### Awards & Recognitions:

- Reviewer of Modern Physics Letters A.
- Senior Research Fellowship Individual awarded by CSIR (2009).
- Junior Research (Institute) Fellowship awarded by IIT Kharagpur (2005).
- Rank among top 20% in (Physical Sciences) NET (2004) as UGC-JRF.
- Rank 59 in GATE Physics (2004).

Research interest: Quantum fields in curved space, spin and torsion, astrophysics, cosmology.

Total number of journal publications: 11 (8 PRD, 1 JCAP, 1 GERG, 1 EPJP)

#### Selected Publications:

5. **Suman Ghosh**, *Spin 1/2 field and regularization in de Sitter and radiation dominated universe*, Phys. Rev. D 93, 044032 (2016).
4. **Suman Ghosh**, *Creation of spin 1/2 particles and renormalization in FLRW spacetime*, Phys. Rev. D. 91, 124075 (2015).
3. S. Santhosh Kumar, **Suman Ghosh** and S. Shankaranarayanan, *Entanglement entropy for non-zero genus topologies*, Phys. Rev. D 89, 065019 (2014).
2. **Suman Ghosh**, Hemwati Nandan and Sayan Kar, *Confinement of test particles in warped spacetimes*, Phys. Rev. D 82, 024040 (2010).
1. **Suman Ghosh** and Sayan Kar, *Bulk spacetimes for cosmological braneworlds with a time-dependent extra dimension*, Phys. Rev. D 80, 064024 (2009).

Full publication list can be found at:

<http://inspirehep.net/search?p=author%3ASuman.Ghosh.1%20AND%20collection%3Aciteable>

#### Recent conferences attended:

3. Field Theoretic Aspects of Gravity (FTAG-2016) held at S.N. Bose National Centre for Basic Sciences, Kolkata during 22-26 February, 2016.
2. 8th International Conference on Gravitation and Cosmology (ICGC), hosted by the Indian Institute of Science Education and Research Mohali, during 14-18, December, 2015.
1. Fourteenth Marcel Grossman Meeting, La Sapienza University, Rome, Italy 12-18 July, 2015.