

Dr. Ranjan Sharma

Last updated on: March 18, 2018

RESEARCH INTERESTS

My research interests are focused on some of the fundamental issues in General Relativity and a number of topics in theoretical astrophysics and cosmology. My current research work include the following:

- Exact solutions to Einstein field equations and applications;
- Compact stars;
- Gravitational collapse;
- Dark side of the Universe;
- Modified gravity.

ONGOING RESEARCH PROJECTS

1. The University Grants Commission (UGC), Government of India, sponsored Minor Research Project (Ref.: F.PSW-195/15-16 (ERO)) titled 'Probing the physics of relativistic compact objects through multi-messenger approach'.
2. Research projects under the Visiting Research Associateship Programme of the Inter University Centre for Astronomy and Astrophysics (IUCAA), Pune, Govt. of India.

AWARDS AND RESEARCH GRANTS

1. Awarded Junior Research Fellowship by the Department of Science and Technology (DST), Govt. of India, in the year 1997.
2. Awarded Senior Research Fellowship by the Council for Scientific and Industrial Research (CSIR), Govt. of India, in the year 2000.
3. Awarded 1st prize for a talk in the 23rd conference of the Indian Association for General Relativity and Gravitation (IAGRG), held in Jaipur, India, in 2004 and winner of **V V Narlikar memorial best thesis competition award**.
4. Awarded Post-doctoral fellowship by the National Research Foundation (NRF), South Africa, in 2006-2007.
5. Awarded Visiting Research Associateship at the Inter University Centre for Astronomy and Astrophysics (IUCAA), Pune, India, with effect from 01 August 2009.

RESEARCH SUPERVISION

1. PhD supervisor of Dr. Shyam Das, Department of Mathematics, Jadavpur University, India.

Dr. Shyam Das, jointly supervised by Prof. Farook Rahaman and Dr. Ranjan Sharma, was awarded PhD degree for a thesis entitled ‘Equilibrium structure, composition and dynamical evolution of classes of self-bound systems in strong gravity regime’.

PREVIOUS EMPLOYERS:

Previous employer(1):

Institute: St. Joseph’s College, North Point, Darjeeling, India.

Job title: Assistant Professor in Physics.

Previous employer(2):

Institute: School of Physics (Pietermaritzburg Campus), University of KwaZulu-Natal, South Africa.

Job title: Lecturer in Physics.

Previous employer(3):

Institute: P. D. Women’s College, Club Road, Jalpaiguri, India.

Job title: Associate Professor in Physics.