

SwarnaJayanti Fellowships Scheme- 2019-20

Shortlisted Candidates for Presentation before Subject Area Committee in Physical Sciences on 10th August, 2020 (Monday) at 1030 hrs through video conferencing/ web meeting

S.No	Title of the Proposed Project Proposal/ Temporary File No.	Applicant Name And Address
1.	Studies on the spectral and temporal modification of spontaneous emission of solid state defects using resonant photonic structures DST/SJF/PS/2020/60	Dr. Rajesh V. Nair Department of Physics, Indian Institute of Technology-Ropar, Nangal Rd, Hussainpur, Rupnagar-140001
2.	Imaging convection in the interior of the Sun DST/SJF/PS/2020/62	Dr. Shravan Hanasoge Department of Astronomy and Astrophysics, Tata Institute of Fundamental Research, 1, Homi Bhabha Road, Colaba, Mumbai -400005
3.	Building Better Batteries: Development of Dual-Carbon and Al-ion Battery Prototypes from Spent Li-ion Battery DST/SJF/PS/2020/64	Dr. Vanchiappan Aravindan Department of Chemistry, Indian Institute of Science Education and Research-Tirupati, Rami Reddy Nagar, Karakambadi Road, Mangalam P.O. Tirupati-517507
4.	Neutrino Murmurations and Supernova Explosions DST/SJF/PS/2020/66	Dr. Basudeb Dasgupta Department of Theoretical Physics, Tata Institute of Fundamental Research, 1, Homi Bhabha Road, Colaba, Mumbai-400005
5.	On Progressing a Leap Forward to Understand Heating and Mass Transport in the Sun's Atmosphere DST/SJF/PS/2020/70	Dr. Abhishek Kumar Srivastava Department of Physics, Indian Institute of Technology-BHU, Banaras Hindu University, Varanasi-221005
6.	Novel transport and optical phenomena induced by Berry curvature in topological and 2D materials. DST/SJF/PS/2020/77	Dr. Amit Agarwal Department of Physics, Indian Institute of Technology-Kanpur Kanpur -208016
7.	Driven and correlated quantum matter DST/SJF/PS/2020/82	Dr. Arnab Sen School of Physical Sciences, Indian Association for the Cultivation of Science, 2A & 2B Raja S C Mullick Road, Kolkata -700032
8.	Beyond Standard Model Physics at Energy, Intensity, and Cosmic Frontiers through the Looking Glasses of Neutrino, Dark Matter, and Gravitational Wave DST/SJF/PS/2020/97	Dr. Manimala Mitra Institute of Physics, Sachivalaya Marg, Bhubaneswar-751005
9.	Engineering Quantum Matter and Quantum states in dipolar systems towards Quantum technological Applications DST/SJF/PS/2020/104	Dr. Rejish Nath Department of Physics, Indian Institute of Science Education and Research-Pune Dr. Homi Bhabha Road, Pune -411008
10.	Landscape of Beyond the Standard Model Physics at Neutrino Experiments DST/SJF/PS/2020/109	Dr. Sanjib Kumar Agarwalla Institute of Physics, Sachivalaya Marg, Bhubaneswar -751005