SwarnaJayanti Fellowships Scheme- 2018-19

Shortlisted Candidates for Presentation before Subject Area Committee in

Physical Sciences

Date of Presentation/ Meeting: Friday, 18th October, 2019

Time: 9.00 a.m.

Venue: <u>Indian National Science Academy</u>

Bahadur Shah Zafar Marg (Near ITO Metro Station) New Delhi-110002

S.No	Project Title / Temporary Reference No.	Applicant Name & Address
1.	Using Machine Learning as Neutrino Event Classifier (DST/SJF/PS/2019/1)	Dr. Satyajit Jena Deptt. of Physics, Indian Institute of Science Education and Research Mohali, Knowledge City, Sector 81 SAS Nagar, PO Manauli -140306
2.	Partially Tunable Single Photon Emitters based on 2D materials Quantum Dots Coupled to Photonics Nanowires at room temperature and its Applications (DST/SJF/PS/2019/7)	Dr. Rajan Jha School of Basic Sciences Indian Institute of Technology Bhubaneswar, Argul-752050
3.	Quantum Dynamics, Correlation Functions and Holography (DST/SJF/PS/2019/13)	Dr. Arnab Kundu Theory Dvision, Saha Institute of Nuclear Physics, Block AF, Sector 1, Bidhannagar, Kolkata -700064
4.	Predicting transport, optical and plasmonic properties of topological materials - from abinitio to low energy models. (DST/SJF/PS/2019/14)	Prof. Amit Agarwal Deptt. of Physics Indian Institute of Technology Kanpur, Kanpur-208016
5.	Massive Neutrinos - A Window for Physics Beyond the Standard Model (DST/SJF/PS/2019/15)	Dr. Sanjib Kumar Agarwalla Institute of Physics, Sachivalaya Marg, Bhubaneswar-751005
6.	Probing extreme gravity and astrophysics using gravitational-wave observations (DST/SJF/PS/2019/16)	Prof. Parameswaran Ajith International Center for Theoretical Sciences, TIFR, Survey No. 151, Shivakote, Hesaraghatta Hobli, Bengaluru- 560089

S.No	Project Title / Temporary Reference No.	Applicant Name & Address
7.	Effects of inclusions on the dynamical and rheological properties of disordered systems and understanding plasticity at Nano scale (DST/SJF/PS/2019/20)	Dr. Smarajit Karmakar Tata Institute of Fundamental Research- Hyderabad, 36/P, Gopanpally Village, Serilingampally, Ranga Reddy District, Hyderabad-500107
8.	One symmetry to rule them all (DST/SJF/PS/2019/24)	Dr. Arjun Bagchi Deptt. of Physics, Indian Institute of Technology Kanpur, Kanpur-208016
9.	Intrinsic noise and collective behavior in biological systems. (DST/SJF/PS/2019/26)	Dr. Vishwesha Guttal Centre for Ecological Sciences, Indian Institute of Science, Bengaluru -560012
10.	Generating and quantifying genuine randomness in the lab using qubit and higher dimensional systems (DST/SJF/PS/2019/30)	Prof. Urbasi Sinha Raman Research Institute, C. V. Raman Avenue, Sadashivanagar, Bengaluru-560080
11.	Exploring the emergent topological properties of graphene hybrids (DST/SJF/PS/2019/32)	Dr. Anindya Das Deptt. of Physics Indian Institute of Science, Bengaluru -560012
12.	Studies on the spectral and temporal modification of spontaneous emission of color centers using photonic structures (DST/SJF/PS/2019/35)	Dr. Rajesh V Nair Deptt. of Physics Indian Institute of Technology Ropar, Nangal Road, Rupnagar, Ropar -140001
13.	Imaging convection in the interior of the Sun (DST/SJF/PS/2019/41)	Prof. Shravan Hanasoge Astronomy and Astrophysics, Tata Institute of Fundamental Research, 1, Homi Bhabha Road, Colaba, Mumbai -400005
14.	Inducing novel optical property in silk with nanometer precision by femtosecond laser pulses and Applications (DST/SJF/PS/2019/44)	Dr. Kamal P Singh Deptt. of Physical Sciences Indian Institute of Science Education and Research Mohali, Knowledge City, Sector 81 SAS Nagar, PO Manauli -140306