

List of Applications Received - Physical Sciences – 2018-19

Sr. No.	Name & Address of the Applicants	Title of Proposal / File No.
1	Dr. Satyajit Jena Indian Institute of Science Education and Research Mohali , Knowledge City, Sector 81 SAS Nagar, PO Manauli Punjab (140306)	Using Machine Learning as Neutrino Event Classifier (DST/SJF/PS/2019/1)
2	Dr. Gurumurthy Hegde BMS College of Engineering , Bull Temple Road Bangalore - Bengaluru Karnataka (560019)	Light induced phenomena in organic materials physical processes and active devices (DST/SJF/PS/2019/2)
3	Dr. Rajdeep Sensarma Tata Institute of Fundamental Research (TIFR) ,1, Homi Bhabha Road, Colaba, Mumbai Maharashtra (400005)	Non Equilibrium Dynamics of Quantum Many Body Systems Starting from Athermal States (B)
4	Prof. Pratap Kollu University of Hyderabad Prof. C.R Rao Road P.O. Central University Hyderabad, Telangana (500046)	MAGnetic BIOchip for next generation diagnostiCs (MAG BIO IC) (DST/SJF/PS/2019/4)
5	Dr. Shashi Thutupalli National Centre for Biological Sciences, TIFR Tata Institute of Fundamental Research Bellary Road, Bangalore (560065)	Physics of metabolic scaling and transitions to dormancy in living systems (DST/SJF/PS/2019/5)
6	Dr. Gaurav Mahadev Lohar LAL Bahadur Shastri College of Arts Science and Commerce Satara ,17, Malhar peth SATARA Maharashtra (415002)	Performance and evaluation of metal-organic framework MOF reduced graphene oxide composite for supercapacitor and biosensor application (DST/SJF/PS/2019/6)
7	Dr. Rajan Jha Indian Institute of Technology bhubaneswar ,IIT Bhubaneswar, Argul Orissa (752050)	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)
8	Dr. Kanagasekaran Indian Institute of Science Education and Research Tirupati ,Rami Reddy Nagar, Karakambadi Road, Mangalam B.O. Tirupati Andhra Pradesh(517507)	The invention of electrical pumped organic solid state semiconductor green laser (DST/SJF/PS/2019/8)
9	Dr. Priyotosh Bandyopadhyay Indian Institute of Technology Hyderabad ,Kandi, Sanga Reddy Hyderabad Telangana (502285)	Machine learning in particle physics at the LHC and FCC (DST/SJF/PS/2019/9)
10	Dr. M. Kumaresavanji National College (autonomous),Dindigul Road Karumadapam Tiruchirappalli Tamilnadu (620001)	Magnetic refrigeration using multifunctional nanostructured materials (DST/SJF/PS/2019/10)
11	Dr. Neelam Panwar Aryabhata Research Institute of Observational Sciences , Nainital, Manora Peak, Nainital Uttarakhand (263002)	Star formation in massive star forming complexes (DST/SJF/PS/2019/11)

12	Dr. Mudi Rrajesh Yadav Vishnu Institute of Technology, Vishnupur, Bhimavaram West Godavari Dist., Bhimavaram Andhra Pradesh (534202)	Magnetolectric Core-Shell Nanocomposites for Biomedical Applications (DST/SJF/PS/2019/12)
13	Dr. Arnab Kundu Saha Institute of Nuclear physics, Block AF, Sector 1, Bidhannagar, Kolkata West Bengal (700064)	Quantum Dynamics, Correlation Functions and Holography (DST/SJF/PS/2019/13)
14	Prof. Amit Agarwal Indian Institute of Technology Kanpur ,IIT Kanpur Nagar Uttar Pradesh (208016)	Predicting transport, optical and plasmonic properties of topological materials - from ab-initio to low energy models. (DST/SJF/PS/2019/14)
15	Dr. Sanjib Kumar Agarwalla Institute of Physics ,Sachivalaya Marg, Orissa, INDIA (751005)	Massive Neutrinos - A Window for Physics Beyond the Standard Model (DST/SJF/PS/2019/15)
16	Prof. Parameswaran Ajith International Center for Theoretical Sciences,TIFR, Survey No. 151, Shivakote, Hesaraghatta Hobli, Bengaluru Karnataka (560089)	Probing extreme gravity and astrophysics using gravitational- wave observations (DST/SJF/PS/2019/16)
17	Dr. Devara Soundararajan Tamil Nadu Agricultural University ,Lawly Road, , Coimbatore Tamilnadu (641003)	Surface modification of conventional Metallic Soil- Moisture Sensor Probes by using Nanotechnology (DST/SJF/PS/2019/17)
18	Dr. Karunakaran M. Alagappa Government Arts College, Iluppakudi Village, Karaikudi Taluk, Sivaganga District Tamilnadu (630003)	Structural, optical and magnetic properties of low dimensional semiconductor Cd _{1-x} Y _x Mn _x MyO MTransition metal for gas sensing amp solar cell applications (DST/SJF/PS/2019/18)
19	Dr. Kavita Lalwani Malaviya National Institute of Technology, jaipur ,Prabha Bhawan, MNIT Campus, JLN Marg Jaipur Rajasthan(302017)	Study of the CP Violation with Belle II (DST/SJF/PS/2019/19)
20	Dr. Smarajit Karmakar Tata Institute of Fundamental Research-hyderabad ,36/P Gopanpally Village,Serilingampally, Ranga Reddy District, Hyderabad, India Telangana (500107)	Effects of inclusions on the dynamical and rheological properties of disordered systems and understanding plasticity at Nano scale (DST/SJF/PS/2019/20)
21	Dr. Rishi Sharma Tata Institute of Fundamental Research ,1 Homi Bhabha Road, Colaba, Mumbai Maharashtra (400005)	Exploring extreme phases of QCD using effective field theory (EFT) techniques (DST/SJF/PS/2019/21)
22	Dr. Priyanka Singh Jamia Milia Islamia University Jamia Nagar New Delhi (110025)	Experimental studies of interaction of anticancer drugs with DNA by spectroscopic and electrochemical methods (DST/SJF/PS/2019/22)
23	Dr. Amarendra Kumar Sarma Indian Institute of Technology Guwahati ,Guwahati Assam (781039)	Quantum Optomechanical Radar and Quantum Illumination (DST/SJF/PS/2019/23)
24	Dr. Arjun Bagchi Indian Institute of Technology kanpur ,IIT Kandpur Nagar Uttar Pradesh (208016)	One symmetry to rule them all (DST/SJF/PS/2019/24)

25	Dr. Adarsh Kumaran Nair Valsala Devi Indian Institute of Science Education and Research Bhopal Bypass Road, Bhauri, Bhopal Madhya Pradesh (462066)	Two-dimensional view of ultrafast quantum dynamics and many-body interactions of quasiparticles and pseudospins in low dimensional materials and their heterostructures (DST/SJF/PS/2019/25)
26	Dr. Vishwesh Guttal Indian Institute of Science CV Raman Rd, Devasandra Layout, Bengaluru Karnataka (560012)	Intrinsic noise and collective behavior in biological systems. (DST/SJF/PS/2019/26)
27	Dr. Ranjit Thapa SRM University-AP, Amaravati, Mangalagiri mandal, Guntur district, Andhra Pradesh (522502)	Catalysts Genome Descriptor to Database (DST/SJF/PS/2019/27)
28	Dr. Dinesh Kumar Shukla UGC DAE CSR Indore centre ,DAVV Campus Khandwa Road Indore Madhya Pradesh (452001)	In-situ X-ray diffraction and ferroelectric polarization measurements on single crystalline and polycrystalline materials (DST/SJF/PS/2019/28)
29	Dr. Dipal B Patel Lovely Professional University, Delhi - Jalandhar National Highway, Phagwara, Punjab(144411)	All metal oxide based transparent, bi facial and air stable solar modules for next generation PV (DST/SJF/PS/2019/29)
30	Prof. Urbasi Sinha Raman Research Institute ,C. V. Raman Avenue, Sadashivanagar, North of Bengaluru, (near Mekhri circle), Bangalore Karnataka (560080)	Generating and quantifying genuine randomness in the lab using qubit and higher dimensional systems (DST/SJF/PS/2019/30)
31	Dr. Udit Narayan Pal Central Electronics Engineering Research Institute, Pilani, Rajasthan (333031)	Design and development of pseudospark discharge based portable and tunable EUV/soft X-ray source and plasma cathode electron (PD-PCE) source suitable for surface modification applications (DST/SJF/PS/2019/31)
32	Dr. Anindya Das Indian Institute of Science CV Raman Rd, Devasandra Layout, Bengaluru Karnataka(560012)	Exploring the emergent topological properties of graphene hybrids (DST/SJF/PS/2019/32)
33	Dr. Prithvi Singh SIR Padampat Singhania University, Bhatewar, Udaipur, Bhatewar Rajasthan (313601)	Quantum mechanical modeling of radiation damage- Monte Carlo simulation and theoretical study of the DNA damage induced by ionizing charged particles from radiotherapy (DST/SJF/PS/2019/33)
34	Dr. Sanjeev Kumar Central Scientific Instruments organisation ,Sector 30C Chandigarh (160030)	Real Time Electroencephalogram based Quantitative Estimation of Pain in patients undergoing surgical procedure under General Anesthesia (DST/SJF/PS/2019/34)
35	Dr. Rajesh V Nair Indian Institute of Technology Ropar, Nangal Road Ropar Punjab (140001)	Studies on the spectral and temporal modification of spontaneous emission of color centers using photonic structures (DST/SJF/PS/2019/35)
36	Dr. Biswajit Saha National Institute of Technology, Agartala P.O.: Former Tripura Engineering College Barjala, Jirania, Agartala Tripura (799046)	Enhancement of power factor of polymer based thermoelectric materials for green source of energy (DST/SJF/PS/2019/36)

37	Dr. Soham Manni Indian Institute of Technology Palakkad ,IIT Palakkad, Kozhippara, Palakkad Kerala (678557)	Design, discovery and single growth of novel spin-orbit materials and tuning their magnetic and electronic properties (DST/SJF/PS/2019/37)
38	Dr. Jaya Velurajeev Gandhi Saveetha School of Engineering, Saveetha university ,Saveetha Nagar, Thandalam, Chennai Tamilnadu (602105)	Novel method for synthesis of one-Dimensional phase change Ge ₂ Sb ₂ Te ₅ material for thermoelectric and information storage applications. (DST/SJF/PS/2019/38)
39	Dr. Seema Sharma Indian Institute of Science Education and Research Pune ,Dr. Homi Bhabha Road Pune Maharashtra (411008)	Pursuing the Invincible: Beyond Standard Model Physics at LHC & HL-LHC (DST/SJF/PS/2019/39)
40	Dr. Narendra Kumar Agrawal Poddar International College ,Sector 7, Near Shipra Path, Mansarovar, Jaipur Rajasthan (302020)	Nano-Plasma Engineering for Tuning of Surface Properties and Biological Response of Polymer Nano-Composites for Fabrication of Biomedical Implants and Biomedical Devices (DST/SJF/PS/2019/40)
41	Prof. Shravan Hanasoge Tata Institute of Fundamental Esearch (TIFR) ,1, Homi Bhabha Road, Colaba, Mumbai Maharashtra (400005)	Imaging convection in the interior of the Sun (DST/SJF/PS/2019/41)
42	Dr. Vipin Kumar Manipal University Jaipur ,Dehmi Kalan, Off Jaipur-Ajmer Expressway, Bagru-Jaipur Dehmi Kalan, Off Jaipur-Ajmer Expressway Rajasthan (303007)	Electronic and quantum transport in 2D materials coupling of first principle and non-equilibrium Green function methods (DST/SJF/PS/2019/42)
43	Dr. Jhiliam Sadhukhan Variable Energy Cyclotron Centre, 1/AF, Bidhannagar, Kolkata, West Bengal Kolkata (700064)	Predictive Modeling of Heavy and Superheavy nuclei using Nuclear Density Functional Theory “ A Prospect for Indian Nuclear Research (DST/SJF/PS/2019/43)
44	Dr. Kamal P Singh Indian Institute of Science Education and Research Mohali ,Knowledge City, Sector 81 SAS Nagar, PO Manauli Punjab (140306)	Inducing novel optical property in silk with nanometer precision by femtosecond laser pulses and Applications (DST/SJF/PS/2019/44)
45	Dr. Ramesh Prabhu Manimuthu Alagappa University ,Alagappa Puram, Karaikudi Tamilnadu (630003)	Effect of fullerene on the performance of polymer electrolyte membrane fuel cells and its challenges (DST/SJF/PS/2019/45)
46	Dr. Subhadeep De National physical laboratory ,Room No. 39A National Physical Laboratory, Dr. K.S. Krishnan Road New delhi Delhi (110012)	Development of an Ultra-stable Optical Network for Disseminating Phase amp Frequency Stabilized Light A Requisite for Intercomparison of Precision Measurements (DST/SJF/PS/2019/46)
47	Dr. Sejal Shah Institute for Plasma Research ,A-10/B, Sector 25, GIDC, Electronics Estate, Gandhinagar Gujarat (382016)	Radiation impact on insulating materials for the application in nuclear reactors (DST/SJF/PS/2019/47)

48	Dr. Dattatray Jaysing Late Amity University, Mumbai, Mumbai-Pune Expressway, Bhatan, Panvel, Navi Mumbai Maharashtra (410206)	Synthesis of large-area, highly crystalline single ^{2D} and Few-layers of undoped and doped two-dimensional transition metal dichalcogenides on diverse substrates - A prototype for Advanced Flexible Nanoelectronics and Energy storage Devices (DST/SJF/PS/2019/48)
49	Dr. Suchetana Chatterjee Presidency University ,86/1 College Street, Kolkata, West Bengal (700073)	The Cosmic Evolution of Supermassive Black Holes: A Multi-Wavelength Approach (DST/SJF/PS/2019/49)
50	Dr. Chandra Sekhar Rout Jain University, Centre for Nano and Material Sciences ,Jain Global Campus, Jakkasandra (P) Kanakpura (T) Ramanagara (D) Kanakapura Karnataka (562112)	Tuning the physical properties of transition metal diselenide/graphene arrays for high performance microsupercapacitor devices (DST/SJF/PS/2019/50)
51	Dr. Raunak Kumar Tamrakar Bhilai Institute of Technology, bhilai house durg Bhilai House Chhattisgarh (491001)	Synthesis of Optically Active Nanocomposites of Polymer and Inorganic Nanophosphor For Solid State Lightning and Environmental Applications (DST/SJF/PS/2019/51)
52	Dr. Rajesh P SRI Sivasubramaniya Nadar (ssn) College of Engineering ,Old Mahabalipuram, Kalavakkam Tamilnadu (603110)	Development of Ultraviolet photodetectors from direction controlled nickel based single crystals (DST/SJF/PS/2019/52)
53	Prof. C M Chandrashekar Institute of Mathematical Sciences (Autonomous Institution under DAE, Govt. of India) IV Cross Road, CIT Campus, Taramani Chennai Tamilnadu (600113)	Quantum simulation of complex quantum dynamics using single qubit quantum walk and its scalability in qubit-network (DST/SJF/PS/2019/53)
54	Mr. Bruno Chandrasekar The American College Tallakulam Madurai Tamilnadu (625002)	A theoretical study of resonant tunneling in double-barrier heterostructures (DST/SJF/PS/2019/54)
55	Dr. J. Vijay Kumar Bharathiar University, Coimbatore, Tamil Nadu (641046)	Certain investigation and monitoring systems for retinoblastoma rb cancer using digital image processing techniques (DST/SJF/PS/2019/55)
56	Dr. Dibya Prakash Rai Pachhunga University College, College Veng Aizawl Mizoram (796001)	Promising thermoelectric properties of ABO ₃ AAlkaline-earth or Rare earth element and BTransition metal type perovskite compounds a probe from a first principles method (DST/SJF/PS/2019/56)
57	Dr. J.Vijay Kumar Bharathiar University, Coimbatore, Tamil Nadu (641046)	Certain investigation and monitoring systems for cotton plants diseases using digital image processing techniques (DST/SJF/PS/2019/57)
58	Dr. Balasubramanian V SNS College of Technolgy ,Sathy Road, Vazhiyampalayam, Saravanampatitt (PO), Coimbatore - 641 035 Tamilnadu(641035)	Preparation and Characterization of Ternary sulfides for anti-reflecting coatings in solar cells (DST/SJF/PS/2019/58)
59	Dr. Thangeeswari Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College , #42 Avadi- Vel Tech Road, Avadi, Chennai ,Tamilnadu (600062)	Synthesize and characterization of rare earth doped ni:zno nanoparticles for electronic devices (DST/SJF/PS/2019/59)