SwarnaJayanti Fellowships Scheme- 2019-20

Applications Received from Eligible Candidates-Physical Sciences

(Applicant may inform if there is any mistake or provide missing information to jacob@nic.in & seena.raju1@gov.in_before 25th May, 2020)

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	Dr.Rajesh V Nair
	of solid state defects using resonant	Indian Institute of Technology-Ropar
	photonic structures	Nangal Rd, Hussainpur, Rupnagar,
	D.C. (CV.) (D.C. (C. C. C	Punjab-140001
2	DST/SJF/PS/2020/60	D CCl H
2.	Imaging convection in the interior of the Sun	Prof.Shravan Hanasoge
		Tata Institute of Fundamental Research
	DST/SJF/PS/2020/62	(TIFR)
		1, Homi Bhabha Road,
		Colaba, Mumbai Maharashtra-400005
3.	Building Better Batteries:	Dr.Vanchiappan Aravindan
J.	Development of Dual-Carbon and Al-	Dr. vancinappan Aravinuan
	ion Battery Prototypes from Spent Li-	Indian Institute of Science Education and
	ion Battery	Research-Tirupati
		Rami Reddy Nagar, Karakambadi Road,
	DST/SJF/PS/2020/64	Mangalam P.O. Tirupati
		Andhra Pradesh-517507
4.	Neutrino Murmurations and	Prof.Basudeb Dasgupta
	Supernova Explosions	
	DCT /CIE /DC /2020 // /	Tata Institute of Fundamental Research
	DST/SJF/PS/2020/66	(TIFR) 1, Homi Bhabha Road,
		Colaba, Mumbai
		Maharashtra-400005
5.	Probing the Higgs boson properties at	Dr.Aruna Kumar Nayak
	LHC and silicon detector RandD for	
	future collider experiments	Institute of Physics
		Sachivalaya Marg,
	DST/SJF/PS/2020/67	Bhubaneswar
		Odisha-751005
6.	Studies of twisted magnets and novel	Dr.Tanmoy Das
	topological spin textures	Indian Institute of Science
	DST/SJF/PS/2020/69	C. V. Raman Road
	031/3)1/13/2020/09	Bangalore
		Karnataka-560012
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7.	On Progressing a Leap Forward to	Dr.Abhishek Kumar Srivastava
	Understand Heating and Mass	
	Transport in the Sun's Atmosphere	Indian Institute of Technology-BHU
		Banaras Hindu University, Varanasi,
	DST/SJF/PS/2020/70	Uttar Pradesh-221005
8.	Search for elusive new physics at the LHC and beyond	Dr.Biplob Bhattacherjee
		Indian Institute of Science
	DST/SJF/PS/2020/71	C. V. Raman Road
	, , , , ,	Bangalore
		Karnataka-560012
9.	Dynamical origin of extreme events	Dr.Dibakar Ghosh
	and data-based early warning	
	detection	Indian Statistical Institute, Kolkata
		Plot No 203,Barrackpore Trunk Road,
	DST/SJF/PS/2020/72	Dunlop,Bonhooghly, Kolkata
		West Bengal-700108
10.	Signatures of Electro-weak Phase	Dr.Priyotosh Bandyopadhyay
	Transition in Colliders and other	ay
	Experiments	Indian Institute of Technology-
	r · · · · · · · · · · · · · · · · · · ·	Hyderabad
	DST/SJF/PS/2020/73	Kandi, Sanga Reddy, Hyderabad
	, , , , ,	Telangana-502285
11.	Design Principles of Novel Porous	Dr.Srimanta Pakhira
	Covalent Organic Frameworks and	
	Their Application in On-Board	Indian Institute of Technology-Indore
	Vehicular Hydrogen Storage at	Khandwa Road, Simrol Indore
	Ambient Condition	Madhya Pradesh-453552
	DCT /CIE /DC /2020 /7.4	_
12.	DST/SJF/PS/2020/74 Development of single molecule	Prof.Suryanarayana Jammalamadaka
12.	sensor using magnetic nanocontacts	P101.5ul yallal ayalla Jallillalalllauaka
	sensor using magnetic nanocontacts	Indian Institute of Technology-
	DST/SJF/PS/2020/75	Hyderabad
	031/3)1/13/2020/73	Kandi, Sanga Reddy, Hyderabad
		Telangana-502285
13.	Heusler Alloys - A material class with	Prof.Aftab Alam
15.	promising multi-functional topological	1 1012 Htab Main
	properties	Indian Institute of Technology-Bombay
	properties	Powai, Mumbai
	DST/SJF/PS/2020/76	Maharashtra-400076
14.	Novel transport and optical	Prof.Amit Agarwal
17.	phenomena induced by Berry	1101411111C115ai wai
	curvature in topological and 2D	Indian Institute of Technology-Kanpur
	materials.	Kanpur Nagar
	materials.	Uttar Pradesh-208016
	DST/SJF/PS/2020/77	

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15.	Intelligent materials for food	Dr.Raunak Kumar Tamrakar
	packaging application	
		Bhilai Institute of Technology
	DST/SJF/PS/2020/78	Bhilai House Durg
		Chhattisgarh-491001
16.	Time resolved X-ray diffraction under	Dr.Dinesh Kumar Shukla
	electric field as a probe to structural	
	dynamics in ferroelectrics	UGC DAE CSR Indore Centre
	DCE (CVD /DC /2020 /E0	DAVV Campus Khandwa Road Indore
4.7	DST/SJF/PS/2020/79	Madhya Pradesh-452001
17.	Development electrochemical	Dr.Gaurav Mahadev Lohar
	supercapacitor based on ternary	Lal Dahadur Chastri College of Arts
	cobalt oxide/ sulfides reduced graphene oxide composite	Lal Bahadur Shastri College of Arts Science and Commerce
	graphene oxide composite	17, Malhar Peth Satara
	DST/SJF/PS/2020/81	Maharashtra-415002
18.	Driven and correlated quantum	Prof.Arnab Sen
10.	matter	Fron Armad Sen
	matter	Indian Association for the Cultivation of
	DST/SJF/PS/2020/82	Science
	20170,1710,2020,02	2A & 2B Raja S C Mullick Road, Kolkata
		West Bengal-700032
19.	Exploration of emerging phenomena	Dr.Chadr Shekhar Yadav
	in quantum materials using Magneto-	
	transport, Thermoelectricity and	Indian Institute of Technology-Mandi
	Magnetic studies	Kamand Campus, Vpo Kamand Distt.
		Mandi
	DST/SJF/PS/2020/83	Himachal Pradesh-175005
20.	Anisotropic Particles in Turbulent	Dr.Samriddhi Sankar Ray
	Flows From sub-Kolmogorov to	
	Inertial Scales	International Center for Theoretical
		Sciences, TIFR
	DST/SJF/PS/2020/84	Survey No. 151, Shivakote, Hesaraghatta
		Hobli, Bengaluru
24		Karnataka-560089
21.	Emergent phenomena in metal halide	Dr.Adarsh Kumaran Nair Valsala Devi
	perovskite nanocrystals and 2D semiconductors	Indian Institute of Science Education and
	Semiconductors	Research-Bhopal
	DST/SJF/PS/2020/85	Bhopal Bypass Road, Bhauri, Bhopal
	001/001/10/2020/00	Madhya Pradesh-462066
22.	Ligand creativity to counter COVID 19	Dr.Suvitha
	by Quantum computational aided drug	Diouvidia
	design	CMR Institute of Technology Bangalore
		#132, AECS Layout ITPL Main Road
	DST/SJF/PS/2020/87	Kundalahalli Bangalore
	, -, , -,,	Karnataka-560037

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23.	Cosmology From Space	Dr.Abhirup Datta
	DST/SJF/PS/2020/88	Indian Institute of Technology-Indore Khandwa Road, Simrol Indore
		Madhya Pradesh-453552
24.	Study of fusion-fission dynamics in heavy mass region via total and	Dr.Jagdish Gehlot
	individual channel ER cross section	Inter University Accelerator Center,
	measurements	Aruna Asaf Ali Marg, Near Vasant Kunj, New Delhi
	DST/SJF/PS/2020/89	Delhi-110067
25.	Spin-orbit coupling via interface engineering for future spintronic	Prof.Subhankar Bedanta
	devices	National Institute of Science Education and Research
	DST/SJF/PS/2020/90	Jatni,
		Odisha -752050
26.	Probing Fundamental Physics with Astrophysical Observations	Prof.Varun Bhalerao
		Indian Institute of Technology-Bombay
	DST/SJF/PS/2020/91	Powai, Mumbai Maharashtra-400076
27.	Environment Friendly Synthesis of	Dr.Subodh Srivastava
	Low Large Area Graphene Nano	
	Sheets using Liquid Phase Exfoliation	Vivekananda Global University,
	and Their Functionalization with Metal/Metal Oxid	Sector-36, NRI Road, Sisyawas, Jagatpura, Jaipur Rajasthan-303012
	DST/SJF/PS/2020/92	
28.	Exploration of novel pseudospark electron beam based portable and	Dr.Udit Narayan Pal
	tunable EUV/soft X-ray source for	CSIR -Central Electronics Engineering
	biomedical applications	Research Institute, Pilani,
	DST/SJF/PS/2020/93	Rajasthan-333031
29.	Novel Design of Radiation Shielding using Geant4 Simulations and Effects	Dr.Kavita Lalwani
	Analysis for Space Applications.	Malaviya National Institute of
		Technology, Jaipur
	DST/SJF/PS/2020/95	MNIT Campus, JLN Marg, Jaipur Rajasthan-302017
30.	Thermodynamic properties of particle	Dr.Shyamal Biswas
	scattering by ultra-cold quantum	
	systems	University of Hyderabad
	_	Prof. C.R Rao Road
	DST/SJF/PS/2020/96	Central University Hyderabad
		P.O.,Hyderabad Telangana-500046

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31.	Beyond Standard Model Physics at	Dr.Manimala Mitra
	Energy, Intensity, and Cosmic	
	Frontiers through the Looking Glasses	Institute of Physics
	of Neutrino, Dark Matter, and	Sachivalaya Marg,
	Gravitational Wave	Bhubaneswar
		Odisha-751005
	DST/SJF/PS/2020/97	
32.	Exploring breakup probabilities of weakly bound nuclei	Dr.Vivek
	D. CT. (CVT. (D.C. (C.C.))	Bhabha Atomic Research Center
	DST/SJF/PS/2020/98	Trombay, Mumbai
22	Mal at 1 1 at 1 at 2	Maharashtra-400085
33.	Mathematical and practical aspects of	Dr.Dibyendu Roy
	quantum dynamics in	Daman Dagaanah Instituta
	electrodynamics, spectroscopy, and chaos	Raman Research Institute
	chaos	C. V. Raman Avenue, Sadashivanagar, North of Bengaluru, (Near Mekhri Circle),
	DST/SJF/PS/2020/99	Bengaluru,
	031/331713/2020/99	Karnataka-560080
34.	Hot and dense QCD matter in the	Dr.Vinod Chandra
34.	presence of external electromagnetic	Dr.vinou Ghanura
	fields	Indian Institute of Technology
		Gandhinagar
	DST/SJF/PS/2020/100	Palaj, Gandhinagar
	, , , , ,	Gujarat-382355
35.	Development of Machine Learning	Dr.Satyajit Jena
	Tool for Neutrino Experiments	
		Indian Institute of Science Education and
	DST/SJF/PS/2020/102	Research-Mohali
		Knowledge City, Sector 81
		SAS Nagar, PO Manauli
26	D 1	Punjab-140306
36.	Development of Solution Processable	Prof.Pramod Kumar
	third electrode based Organic-	Indian Institute of Tashnalagy Rambay
	Inorganic Hybrid Perovskite Solar Cells	Indian Institute of Technology-Bombay Powai, Mumbai
	Cens	Maharashtra-400076
	DST/SJF/PS/2020/103	Pidilal asilu a 1000/0
37.	Engineering Quantum Matter and	Prof.Rejish Nath
	Quantum states in dipolar systems	
	towards Quantum technological	Indian Institute of Science Education and
	Applications	Research-Pune
		Dr. Homi Bhabha Road, Pune
	DST/SJF/PS/2020/104	Maharashtra-411008
38.	Next generation photonic sources	Dr.Sai Santosh Kumar Raavi
	with all-inorganic metal halide	
	perovskites	Indian Institute of Technology-
		Hyderabad
	DST/SJF/PS/2020/105	Kandi, Sanga Reddy, Hyderabad
		Telangana-502285

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39.	Probing extreme gravity and	Prof.Parameswaran Ajith
	astrophysics using gravitational-wave	
	observations	International Center for Theoretical
		Sciences, TIFR
	DST/SJF/PS/2020/106	Survey No. 151, Shivakote, Hesaraghatta
		Hobli, Bengaluru
		Karnataka-560089
40.	Quantum Dynamics, Correlation	Dr.Arnab Kundu
	Functions and Holography	
	D. CT. (CVT) (D.C. (C. C. C	Saha Institute of Nuclear Physics
	DST/SJF/PS/2020/107	Block AF, Sector 1, Bidhannagar,
		Kolkata
11	D 1:	West Bengal-700064
41.	Probing carrier dynamics in	Dr.Rajendra Singh Dhaka
	heterostructures of topological	
	materials using magneto terahertz	Indian Institute of Technology-Delhi,
	time-domain spectroscopy	Hauz Khas, New Delhi Delhi-110016
	DCT /CIE /DC /2020 /100	Deimi-110016
42.	DST/SJF/PS/2020/108 Landscape of Beyond the Standard	Dr.Sanjib Kumar Agarwalla
42.	Model Physics at Neutrino	DI.Salijib Kulliai Agai walia
	Experiments	Institute of Physics
	Experiments	Sachivalaya Marg,
	DST/SJF/PS/2020/109	Bhubaneswar
	551/5/1/15/2020/109	Odisha-751005
43.	Quantum simulations with	Dr.Tapan Mishra
10.	superconducting circuit Quantum	
	Electrodynamics	Indian Institute of Technology-Guwahati
		Guwahati
	DST/SJF/PS/2020/110	Assam-781039