

Sponsored and Consultancy Research Projects operated by Faculty members of Physics dept (as on December 09, 2020)

(sorted for project expiry date)

S.No.	Project No.	Start Date	Expiry Date	Principal Investigator	Project Title
1.	CSIR /PHY /2016502	01-01-2017	30-11-2037	S. ANANTHA RAMAKRISHNA	Shanti Swarup Bhatnagar Award
2.	SERB /PHY /2019525	06-03-2020	05-03-2025	ARJUN BAGCHI	One Symmetry To Rule Them All
3.	DST /PHY /2019514	01-03-2020	28-02-2025	ARJUN BAGCHI	Swarna Jayanti Fellowship
4.	DST /PHY /2018269	24-09-2018	23-09-2023	JOYDEEP CHAKRABORTTY	Beyond Standard Model (BSM) Models And Their Phenomenology
5.	DST /PHY /2017514	19-03-2018	18-03-2023	SUPRATIK BANERJEE	DST Inspire Faculty Grant
6.	SERB /PHY /2019524	07-03-2020	06-03-2023	AMIT KUMAR AGARWAL	Magneto-Electric And Thermal Transport Phenomena In Topological Materials
7.	DST /PHY /2019513	05-03-2020	04-03-2023	SAURABH MANI TRIPATHI	Effect Of Metamaterials In Anisotropic Photonic Crystals For Efficient Control Of Optical Phenomena
8.	SERB /PHY /2019501	19-02-2020	18-02-2023	JOYDEEP CHAKRABORTTY	Hilbert Series Construction For Effective Field Theories
9.	SERB /PHY /2019441	17-01-2020	16-01-2023	DIPANKAR CHAKRABARTI	Understanding The Three Dimensional Structure Of Proton
10.	SERB /PHY /2019397	31-12-2019	30-12-2022	KRISHNACHARYA .	Investigation Of Wetting Behavior And Mobility Of Aqueous Drops On Lubricating Fluid Coated Slippery Surfaces
11.	SERB /PHY /2018150	01-07-2018	30-09-2022	DEBASHISH CHOWDHURY	J C Bose Fellowship
12.	SERB /PHY /2019208	20-08-2019	19-08-2022	ZAKIR HOSSAIN	Design Synthesis And Physical Properties Of Topological Materials

13.	DAE /PHY /2019178	29-07-2019	28-07-2022	ARIJIT KUNDU	Surface Properties Of Weyl Semimetals
14.	SERB /PHY /2019125	13-06-2019	12-06-2022	AMIT KUMAR AGARWAL	Physics Of Dirac And Weyl Semimetals
15.	IFCPAR/PHY /2018557	01-06-2019	31-05-2022	MAHENDRA KUMAR VERMA	Turbulent Flows In Equilibrium
16.	DST /PHY /2017059	26-04-2017	25-04-2022	S. ANANTHA RAMAKRISHNA	Light Amplification And Lasing In Plasmonic Nanostructured Thin Film Metamaterials
17.	DST /PHY /2019050	24-04-2019	23-04-2022	ANAND KUMAR JHA	Developing Efficient Method For The Measurement And Characterization Of High-Dimensional Quantum States For Photonic Quantum Information
18.	SERB /PHY /2018555	26-03-2019	25-03-2022	S. ANANTHA RAMAKRISHNA	Technology Demonstrator Of An Infra-Red Camouflage Screen Based On Large Area Metamaterials
19.	SERB /PHY /2018522	11-03-2019	10-03-2022	ARIJIT KUNDU	Non-Local Quantum Transport, Confinement And Correlation In Weyl Semimetals
20.	MAXPLA/PHY /2018577	01-03-2019	28-02-2022	DIPTARKA DAS	Max-Planck Partner Group Project
21.	STC /PHY /2019433	22-01-2020	21-01-2022	SUDEEP BHATTACHARJEE	Investigation Of Optical Properties Of Metallic Thin Films Mirrors By Low Energy Plasma (Ion) Irradiation For Space Applications
22.	DST /PHY /2018444	15-01-2019	14-01-2022	SATYAJIT BANERJEE	Developing A Compact Graphene Based Hall Sensor For Monitoring Steel Structures Under Stress In Advanced Materials
23.	DST /PHY /2018429	14-01-2019	13-01-2022	SOUMIK MUKHOPADHYAY	Electric Field Controlled Spin Dynamics In Nanomagnets

24.	DST /PHY /2018398	03-01-2019	02-01-2022	PANKAJ JAIN	Approximate Methods To Model Cosmological Non-Linear Large Scale Structure
25.	SERB /PHY /2019399	16-12-2019	15-12-2021	CHANCHAL SOW	Controlling The Mott Insulating States By Dc Current
26.	SERB /PHY /2019414	16-12-2019	15-12-2021	JAYITA NAYAK	Crystal Growth And Electronic Structure Exploration Of Newly Discovered Magnetic Weyl Semimetals And Multiple Degenerate Fermions
27.	SERB /PHY /2018592	17-11-2018	16-11-2021	MAHENDRA KUMAR VERMA	A Study Of Propagation Of Shock Waves In Conducting Or Non-Conducting Gases As Well As In Mixture Of A Gas And Small Solid Particles
28.	STC /PHY /2018037	16-04-2018	31-10-2021	MAHENDRA KUMAR VERMA	Parallel Electro-Magnetic Solver For Microwave, Infrared, And Optical Applications (Mio-Pems)
29.	SERB /PHY /2018267	14-09-2018	13-09-2021	ADITYA HEMCHANDRA KELKAR	Construction Of A Combined Recoil Ion Momentum And Electron Energy Spectrometer To Study Collision Induced Excitation And Fragmentation Of Molecules And Clusters
30.	DST /PHY /2018254	10-08-2018	09-08-2021	TAPOBRATA SARKAR	An Evolution Study Via Dust Modelling Of Post-Rgb Stars In The Magellanic Clouds
31.	DST /PHY /2015281	29-07-2015	28-07-2021	HARSHWARDHAN WANARE	Protein-Dna Complex:Structure And Dynamics
32.	SERB /PHY /2020131	06-07-2020	05-07-2021	MAHENDRA KUMAR VERMA	Modelling And Forecasting Of Covid-19 Pandemic
33.	SERB /PHY /2018196	13-06-2018	12-06-2021	ARJUN BAGCHI	String Theory At Very High Energies
34.	DST /PHY /2015330	30-04-2015	29-04-2021	TARUN KANTI GHOSH	Quantum mechanism In Ultra old Dipolar Boson

35.	DST /PHY /2017455	31-01-2018	31-03-2021	HARSHWARDHAN WANARE	Development Of Optical Vein Visualisation Aid
36.	SERB /PHY /2017505	19-03-2018	18-03-2021	SAURABH MANI TRIPATHI	Optical-Waveguide Sensor For Accurate Detection Of Bio-Contaminant In Drinking Water
37.	MHRD /PHY /2018541	15-03-2019	14-03-2021	PANKAJ JAIN	Sparc: Observation And Phenomenology Of Ultra High Energy Cosmic Ray Neutrinos At Anita, Ara And Arianna And Other Detectors
38.	MHRD /PHY /2018560	15-03-2019	14-03-2021	ARIJIT KUNDU	Sparc: Topology, Interaction And Environmental Control Of Quantum Information Processing
39.	SERB /PHY /2017504	12-03-2018	11-03-2021	ARJUN BAGCHI	Holography For Asymptotically Flat Spacetimes
40.	IFCPAR/PHY /2017226	01-01-2018	31-12-2020	ANJAN KUMAR GUPTA	Micro-Squid Magnetometry Of Nano-Scale Magnetic Structures