

Sponsored and Consultancy Research Projects operated by Faculty members of Physics Dept (as on April 29, 2024)

(sorted for project expiry date)

SI No.	Project No.	Start Date	Expiry Date	Principal Investigator	Project Title
1.	SERB /PHY /2019525	3/6/2020	5/14/2024	Arjun Bagchi	One Symmetry To Rule Them All
2.	DST /PHY /2021083	3/1/2021	10/17/2024	SOUMIK MUKHOPADHYAY	Nano Devices With Correlated Quantum Materials
3.	SERB /PHY /2021243	10/18/2021	12/7/2024	Jayita Nayak	Investigation Of Topology In Magnetic And Correlated Systems
4.	SERB /PHY /2021474	2/23/2022	12/7/2024	Sagar Chakraborty	Eco-Evolutionary Dynamics Focussing On Rationality, Cooperation, Culture, And Chaos

5.	SERB /PHY /2021473	2/24/2022	2/22/2025	MAHENDRA KUMAR VERMA	Field-Theoretic Treatment Of Weak Turbulence
6.	SERB /PHY /2021504	3/8/2022	2/23/2025	Debtosh Chowdhury	Probing Physics Beyond The Standard Model Via Direct And Indirect Searches
7.	SERB /PHY /2021522	3/14/2022	3/5/2025	MAHENDRA KUMAR VERMA	Dissipation In Solar Corona And Solar Wind : Implications From Anisotropic Magnetohydrodynamic Turbulence
8.	SERB /PHY /2022133	6/27/2022	3/7/2025	ANJAN KUMAR GUPTA	Investigation Of Phase -Slip Induced Non-Equilibrium In Micro-Squids And Their Application To Nano-Particle Magnetometry
9.	SERB /PHY /2022142	6/27/2022	3/13/2025	SATYAJIT BANERJEE	Building Unique Magneto- Optical.....Electric Current,Magnetization & Bulk Transport Measurement At Low Temp With Vector Magnet..Imaging Strong Correlation..Topological Insulator & Its Heterostructures

10.	SERB /PHY /2022410	12/8/2022	6/26/2025	Sudipta Dubey	Investigation Of Room Temperature Valley Hall Effect In Transition Metal Dichalcogenides Heterostructure Under An Out Of The Plane Electric Field
11.	SERB /PHY /2022411	12/8/2022	6/26/2025	Taraknath Mandal	Molecular Simulations Of Membrane Bending By Proteins
12.	SERB /PHY /2022468	1/10/2023	10/22/2025	Nilay Kundu	Aspects Of Black Hole Thermodynamics And Holographic Entanglement In Higher Derivative Theories Of Gravity Beyond General Relativity
13.	SERB /PHY /2022533	2/10/2023	11/2/2025	ZAKIR HOSSAIN	Investigation Of Magnetization Switching Dynamics In Magnetoelectric Heterostructures
14.	DST /PHY /2022523	2/13/2023	12/21/2025	DIPANKAR CHAKRABARTI	1817 - Fist Physical Sciences Level B C Or D Project

15.	SERB /PHY /2022544	2/28/2023	12/28/2025	Chanchal Sow	Thin-Film Growth And Magneto-Optical Kerr Effect Study In Ultra-Thin Novel Double Perovskites
16.	SERB /PHY /2022566	3/7/2023	1/9/2026	Venkata Jayasurya Yallapragada	Single-Emitter Spectroscopy Via Photon Correlations
17.	SERB /PHY /2022585	3/15/2023	2/1/2026	Chanchal Sow	In-Situ Control Of Uniaxial Strain In Emergent Quantum Materials
18.	SERB /PHY /2022577	3/17/2023	2/1/2026	SUDEEP BHATTACHARJEE	Generation And Studies Of Micro-Dbd Plasmas And Ion Beams At Cryogenic Temperatures: Collisional Cooling Toward A Strongly Coupled Regime And Matter-Wave Phenomena
19.	BRNS /PHY /2023024	4/6/2023	2/6/2026	Venkata Jayasurya Yallapragada	Birefringent Building Blocks For Nanophotonics

20.	UGC /PHY /2023423	5/15/2023	2/6/2026	Jayita Nayak	Spectroscopic And Magnetotransport Investigation Of Magnetic Topological Materials
21.	I-HUB /PHY /2023288	7/11/2023	2/9/2026	Rohit Medwal	Tunable Charge To Spin Interconversion At Quantum Interface
22.	I-HUB /PHY /2023251	8/1/2023	2/27/2026	HARSHWARDHAN WANARE	Frequency Double Diode Laser System At 493nm For Barium Ion Spectroscopy
23.	CSIR /PHY /2023474	9/1/2023	2/28/2026	SUDEEP BHATTACHARJEE	Investigation Of Temperature Anisotropy Induced Effects In A Plasma Confined By A Dipole Magnet : Waves And Electron Energy Distribution
24.	SERB /PHY /2023402	9/15/2023	3/6/2026	Anand Kumar Jha	Broadband Uniform-Efficiency Orbital Angular Momentum Detectors For General One-Photon And Entangled Two-Photon States

25.	DST /PHY /2023587	10/23/2023	3/14/2026	KRISHNACHARYA .	One-Pot Development Of Lubricant Infused Slippery Surfaces For Various Complex Fluids And Surfaces
26.	DST /PHY /2023471	11/3/2023	3/16/2026	SATYAJIT BANERJEE	Engineering High Critical Current Density Jc - High Temperature Superconductor Using Magnetic - Nanoparticles, Using Which Developing A Unique Multi Jc High Current Carrying Superconducting Conductor
27.	SERB /PHY /2023585	12/22/2023	4/5/2026	Sudeep Kumar Ghosh	Exploring Novel Platforms For Topological Superconductivity With Robust Majorana Modes In Symmetry- Protected Topological Metals
28.	SERB /PHY /2023613	12/29/2023	7/10/2026	Rohit Medwal	Antiferromagnetic Terahertz Spintronics Emitters
29.	STC /PHY /2023664E	2/2/2024	7/31/2026	Sudipta Dubey	Investigation Of Color Centers In Atomically Thin Hexagonal Boron Nitride As A Source Of Quantum Emitters

30.	STC /PHY /2023664O	2/2/2024	8/1/2026	Supratik Banerjee	A Systematic Investigation On The Role Of Magnetohydrodynamic (Mhd)Turbulence In The Heating Of The Solar Corona
31.	STC /PHY /2023664A	2/2/2024	8/31/2026	VIJAYA Ramarao	Smart Metasurface-Based Reconfigurable Partially Reflecting Surface For 2-40ghz
32.	SERB /PHY /2023708	2/7/2024	9/14/2026	Sabyasachi Chakraborty	Probing Axions At The Fundamental Frontiers
33.	SERB /PHY /2023687	2/7/2024	3/15/2027	Sapam Ranjita Chanu	Quantum Sensing With Experimentally Generated Optimised Squeezed Light
34.	SERB /PHY /2023799	3/16/2024	3/18/2027	Joydeep Chakraborty	Effective Field Theory:Paving The Path Toward The Identification Of Experimentally Favoured Bsm Scenario

35.	SERB /PHY /2023798	3/19/2024	2/12/2028	Jayita Nayak	Search For The Novel Quantum States Of Kagome Topological Materials For Technological Applications
36	MISC /PHY /2023371	9/1/2023	8/31/2028	SATYAJIT BANERJEE	Consultancy From Multiple Agencies For The Central Cryogenics Facility