

List of Projects

SI No.	Name	Email	Title	Program	Remarks
1	Arjun Bagchi	abagchi	String theory and holography	Any	Open to all student
2	Adhip Agarwala	adhip	Topological phases of quantum matter	MSPD(596/598/696/698)	Open to all student
3	Apratim Kaviraj	akaviraj	Nonperturbative approaches in solving QFTs	Any	Student is already selected
4	Aditya Kelkar	akelkar	Studying molecular fragmentation dynamics using ion accelerator	Any	Open to all student
5	Anand Kumar Jha	akjha	Quantum coherence, quantum entanglement and quantum imaging	Any	Open to all student
6	Amit Kumar Agarwal	amitag	Quantum Transport	MS-MSc(563/565)	Open to all student
7	Anjan Kumar Gupta	anjankg	Condensed matter experiment	Any	Open to all student
8	Chandrima Banerjee	cbanerjee	Magneto optic imaging	MSPD(596/598/696/698)	Open to all student
9	Chanchal Sow	chanchal	Single crystal growth of Altermagnets	MSPD(596/598/696/698)	Student is already selected
10	Debtosh Chowdhury	debtoshc	Higgs physics	MS-MSc(563/565)	Open to all student
11	Diptarka Das	didas	Scattering amplitudes in gravitational physics	Any	Open to all student
12	Rajeev Gupta	guptaraj	Structural and Magnetic characterization of vanadates	MSPD(501/502)	Open to all student
13	Gopal Hazra	hazra	Solar dynamo-polar coronal jets, Solar Energetic Particles, Exoplanet atmosphere	Any	Open to all student
14	Harshwardhan Wanare	hwanare	Imaging using an Optical Fiber	MSPD(596/598/696/698)	Open to all student
15	Venkatajayasurya Yallapragada	jayasurya	Nanophotonics	MSPD(596/598/696/698)	Student is already selected
16	Kaushik Bhattacharya	kaushikb	Phenomenology of RN blackholes	MS-MSc(563/565)	Open to all student
17	Krishnacharya	kcharya	Experimental soft matter physics	Any	Open to all student

18	Koushik Pal	koushik	First-principles theory and simulation of quantum and energy materials, Topology and transport properties, Machine learning and Materials discovery.	MSPD(596/598/696/698)	Open to all student
19	Arijit Kundu	kundua	Quantum Geometry of Moire Systems Quantum Transport. Correlation Effects in Condensed Matter.	Any	Open to all student
20	Manas Khan	mkhan	Studying statistical physics of soft and active matter systems, including biological systems, employing optical tweezers and microscopy	Any	Open to all student
21	Navaneeth Poonthottathil	navaneeth	Experimental investigation of neutrino properties.	Any	Open to all student
22	Nilay Kundu	nilayhep	1. Blackhole physics 2. Quantum complexity	MS-MSc(563/565)	Open to all student
23	Rohit Medwal	rmedwal	Terahertz spintronics, Magnonics, Spintronics, and topological photonics.	Any	Open to all student
24	Vijaya R	rvijaya	Experimental Photonics	MS-MSc(563/565)	Open to all student
25	Sabyasachi Chakraborty	sabyac	1. Effective theories of Axions, 2. Soft collinear effective theories for gravity.	Any	Open to all student
26	Sagar Chakraborty	sagarc	Evolutionary Game Dynamics	Any	Open to all student
27	Sanmay Ganguly	sanmay	Machine learning application in High Energy Physics	Any	Open to all student
28	Satyajit Banerjee	satyajit	Superconductivity and magnetic phenomena in low dimensional systems	MSPD(596/598/696/698)	Student is already selected
29	Supratik Banerjee	sbanerjee	Turbulence in quark gluon plasmas, data analysis of solar wind turbulence and use of ML in solar wind turbulence	Any	Open to all student

30	Sivasurender Chandran	schandran	Statistical physics of bacterial swimming - isolated vs collective dynamics	Any	Open to all student
31	Subhomoy Haldar	shaldar	Physics of Semiconductor Quantum Devices	MS-MSc(563/565)	Student is already selected
32	Sudeep Kumar Ghosh	skghosh	Topological Superconductivity and Unconventional Magnetism	Any	Open to all student
33	Soumik Mukhopadhyay	soumikm	spintronics, topological condensed matter, low dimensional magnetism and superconductivity	Any	Open to all student
34	Sapam Ranjita Chanu	sranjita	Quantum Technology with atoms and ions	Any	Open to all student
35	Sudeep Bhattacharjee	sudeepb	Plasma physics, ion-matter interactions, matter waves and quantum physics	Any	Open to all student
36	Sudipta Dubey	sudiptad	2d materials	MSPD(501/502)	Open to all student
37	Swagata Mukherjee	swagata	BSM search	Any	Open to all student
38	Tapobrata Sarkar	tapo	High energy Astrophysics	Any	Continuing student
39	Taraknath Mandal	taraknath	Computational Soft Matter and Bio-Physics	MS-MSc(563/565)	Open to all student
40	Tarun Kanti Ghosh	tkghosh	Topology in condensed matter systems	Any	Open to all student
41	Zakir Hossain	zakir	Superconductivity	MS-MSc(563/565)	Open to all student