

**Central Library, IISER Bhopal**  
**List of iPhD Thesis (as on August, 2023)**

Sl.no.	Roll no.	Name	Title of Thesis	Year	Department	Thesis Advisor
I00001	140501	Ajit Kumar	Mobile Impurity in a Fermionic system	2017	Physics	Dr. Suhas Gangadharaiah
I00002	140502	Amlan Das	Third order nonlinear optical property of NiMoO <sub>4</sub> Nanoparticles (NPs)	2017	Physics	Dr. K.V. Adarsh
I00003	140503	Gulloo Lal Prajapati	Study of Electrical and Optical Properties of charged-ordered NdNiO <sub>3</sub> /NdGaO <sub>3</sub> (001) Thin Film	2017	Physics	Dr. Dhanvir Singh Rana
I00004	140504	Sajilesh K P	Superconducting Properties of Ternary Germides	2017	Physics	Dr. Ravi Prakash Singh
I00005	140505	Sarthal K. Gupta	Probing the Dynamics of Passive Polymers in an Active Bath	2017	Physics	Dr. Snigdha Thakur
I00006	140506	Shashi Sourabh	Non-Linear absorption and Raman Study of Defects in Graphite	2017	Physics	Dr. Surajit Saha
I00007	150201	Abhishek Kumar	A Transfer Hydrogenation Approach for CO <sub>2</sub> Reduction	2018	Chemistry	Dr. Joyanta Choudhury
I00008	150202	Dibyajyoti Pathak	Colorimetric and Fluorescent Probe for Endogenous Hydrogen Peroxide that Distinguishes Tumor Cells from Normal Cells	2018	Chemistry	Dr. Aasheesh Srivastava
I00009	150203	Gulshan Rani	Crystal Structure Analysis in Organic Solids	2018	Chemistry	Dr. Deepak Chopra
I00010	150205	Kanika Aggarwal	Synthesis of Polymers With Multiple Quaternary Ammonium Pendants	2018	Chemistry	Dr. Aasheesh Srivastava
I00011	150206	Pirudhan Karak	Exploring Rollover Annulation in Tridentate Bis-NHC Platform	2018	Chemistry	Dr. Joyanta Choudhury
I00012	150207	Prasenjit Gayen	Synthesis of Keto-Bis-Enones: An Advanced Precursor of Chiral oxa - Spirocycles	2018	Chemistry	Dr. Prasanta Ghorai

I00013	150208	Preeti Bhatt	Polyaspartamides With Hydroxamate Pendants as Potential Tissue Adhesives	2018	Chemistry	Dr. Aasheesh Srivastava
I00014	150209	Subhash	Ir-Catalysed Chemoselective hydrogenation of Aldehydes	2018	Chemistry	Dr. Joyanta Choudhury
I00015	150210	Vivek Singh	Electronic Effect of NHC Backbone in Ru-Complex-Based Oxidation Catalysis	2018	Chemistry	Dr. Joyanta Choudhury
I00016	150501	Albin Joseph	Understanding the physics of inflation using cosmic microwave background angular power spectrum	2018	Physics	Dr. Rajib Saha
I00017	150502	Arun	Cosmological Perturbation Theory	2018	Physics	Dr. Sukanta Panda
I00018	150503	Keerthi Radhakrishnan	Transition of a Polyelectrolyte chain from globule to rod-like state under tension	2018	Physics	Dr. Sunil Pratap Singh
I00019	150504	Monu	Structural and Transport Properties of Pulsed Laser Deposited SrIr <sub>0.5</sub> O <sub>3</sub> thin Films	2018	Physics	Dr. Dhanvir Singh Rana
I00020	150505	Neetu	Supersymmetric Gauge Theories	2018	Physics	Dr. Suvankar Dutta
I00021	150506	Utkarsh Kumar	Nonlocal Cosmology	2018	Physics	Dr. Sukanta Panda
I00022	160503	Chandan Patra	Superconductivity In Topological Materials ZrTe <sub>3</sub>	2019	Physics	Dr. Ravi Prakash Singh
I00023	160505	Dipankar Sen	Quantum Confinement and Ultrafast Charge Transfer in CsPbBr <sub>3</sub> / MoS <sub>2</sub> Van der Waals Heterostructure	2019	Physics	Dr. Adarsh KV
I00024	160507	Kaustav Mukherjee	Rydberg Aggregate Tomography	2019	Physics	Dr. Sebastian Wuster
I00025	160508	Kushal Chakraborty	Non Perturbative Aspects of Quantum Field Theory and Quantum Mechanics	2019	Physics	Dr. Suvankar Dutta
I00026	160509	Md Ishaque Khan	A study of scalar perturbations generated during inflation in a high de Sitter regime	2019	Physics	Dr. Rajib Saha

I00027	160511	Riyanka Karmakar	Investigation of Magnetic Properties in Chiral Helimagnet Cr1/3NbS2	2019	Physics	Dr. Ravi Prakash Singh
I00028	160514	Vinod Kumar	Design and construction of velocity map imaging spectrometer	2019	Physics	Dr. N. Bhargava Ram
I00029	160515	Vivek Nayak	Different Type Solutions of Black Hole	2019	Physics	Dr. Nabamita Banerjee
I00030	160201	Abhinay Yadav	Catalytic Deacylative Allyloations of Enorbonates: Total Synthesis of Amaryllidaceae Alkaloids, (+-) - Mesembrane and (+_-)Crinane	2019	Chemistry	Prof. Alakesh Bisai
I00031	160202	Akshaya Ann John	Short-circulating Redox Centres by Metal-Directed Protein Self-Assembly	2019	Chemistry	Dr. Ankur Gupta
I00032	160203	Angana Bhattacharya	The role of functionalized hydroquinones as redox additives in elctrolyte solution with immense microporous carbon as a nanomaterial for supercapacitor applications	2019	Chemistry	Dr. Amit Paul
I00033	160204	Diksha Singh	Oxazonyl-Assisted Ru(II)-Catalyzed C-H Allylation with Allyl Alcohols	2019	Chemistry	Dr. Manmohan Kapur
I00034	160205	Kovida	Synthesis and Photovoltaic Application of NIR-emitting Perylenemonoimide (PMI)	2019	Chemistry	Dr. Apurba Lal Koner
I00035	160206	Rahul Kant Jha	Porphyrin-Bodipy Conjugates: Synthesis, Charaterization And Properties	2019	Chemistry	Dr. J. Sankar
I00036	160207	Ravi Kumar	Effect in Ir-NHC Catalyzed Hydrogenation of Imine	2019	Chemistry	Dr. Joyanta Choudhury
I00037	160208	Santosh Kumar Keshr	Ru(II)-Catalyzed Reaction of Isoxazoles with Sulfonylhydrazone: One-pot Synthesis of Densely-substituted Pyrroles	2019	Chemistry	Dr. Manmohan Kapur
I00038	160209	Sayan Maity	Towards Pressure-Temperature Phase Diagram of Organo-Halide Hybrid Perovoskite by ab initio Molecular Dynamics	2019	Chemistry	Dr. Varadharajan Srinivasan
I00039	160210	Shilpi Jaiswal	Upconverting hybrid nanoprobe for the ratiometric detection of hydrazine	2019	Chemistry	Dr. Abhijit Patra

I00040	160211	Upasana Gayen	Organocatalytic, Dissymmetric Conjugate Addition of Cyclobutanone for Synthesis of [6,5,4]-fused Carbocycles	2019	Chemistry	Dr. Prasanta Ghorai
I00041	160212	Yashvi Paniya	Synthesis of metal-diselenadiazocane ligand and radical chain-breaking phenolic antioxidants	2019	Chemistry	Prof. Sangit Kumar
I00042	190201	Ayush Bose	Towards the Synthesis of Ralsolamycin	2022	Chemistry	Dr. Manmohan Kapur
I00043	190202	Swarna Saidu	Pyridinium-Based Ionic Porous Organic Polymer for Rapid Scavenging of Metal Oxoanions from Water	2022	Chemistry	Dr. Abhijit Patra
I00044	190203	Isha	Unraveling the Early-Stage Kinetics of Polymerization and Structure- Property Alliance: a Spectroscopic Approach	2022	Chemistry	Dr. Abhijit Patra
I00045	190204	Lucky Ojha	Precision Engineering of Native Proteins by Redefining Reactivity Landscape Using Multicomponent Approach	2022	Chemistry	Dr. Vishal Rai
I00046	190205	Pallavi Singh	Synthesis of Polystyrene-Supported MeDalPhosAuCl for Au(I)/Au(III) Catalysis	2022	Chemistry	Dr. Nitin T. Patil
I00047	190206	Rittika Dey	Characterization of Fluorescence Correlation Spectrometer to Study Reaction Dynamics at Single-Molecule	2022	Chemistry	Dr. Sachin Dev Verma
I00048	190207	Supragya Kaushik	Anthraquinone Derivatives and their Boron Complexes as Analyte Sensors	2022	Chemistry	Prof. Aasheesh Srivastava
I00049	190402	Krishan Chakraborty	Lattice Problems and Their Application to Integer Factorisation	2022	Mathematics	Dr. Karam Deo Shankhadhar and Dr. Shashank Singh
I00050	190403	Pooja Joshi	Riemannian Structures on Lie Groupoids	2022	Mathematics	Dr. Atreyee Bhattacharya and Dr. Madeleine Jotz Lean
I00051	190404	Pranav Kumar	Inverse Problems for Linear Elliptic Equations	2022	Mathematics	Dr. Sombuddha Bhattacharyya
I00052	190501	Aakash Kumar	Massless Particles in Higher Dimensions	2022	Physics	Dr. Arnab Rudra

I00053	190502	Anirban Majumdar	Neutrino Interaction at Direct Dark Matter Detectors	2022	Physics	Dr. Rahul Srivastava
I00054	190504	Brijesh Singh Mehra	Terahertz Study of Spin Wave Excitations in Buckled Honeycomb Antiferromagnet	2022	Physics	Prof. Dhanvir Singh Rana
I00055	190505	Hemant Kumar Prajapati	The Dark-Hyper Charge Symmetry	2022	Physics	Dr. Rahul Srivastava
I00056	190506	Santanu Dhara	Nonequilibrium Quantum Dynamics for Driven Quantum System	2022	Physics	Dr. Suhas Gangadharaiah
I00057	190507	Sonika Jangid	Superconductivity In Topological Semimetal NbGe <sub>2</sub>	2022	Physics	Dr. Ravi Prakash Singh
I00058	190508	Swagata Mallik	Rydberg Atoms Embedded in Bose-Einstein Condensate Droplets	2022	Physics	Dr. Sebastian Wuster
I00059	200501	Afreeen	Temperature -Dependent Optoelectronic properties in (FA <sub>1-x</sub> Cs <sub>x</sub> ) Pb ( I <sub>1-x</sub> Br <sub>x</sub> ) Alloyed Perovskite Quantum Dots	2023	Physics	Prof. K.V. Adarsh
I00060	200502	Debalina Nandy	Gravitational Wave As a Novel Probe in Search of new physics	2023	Physics	Dr. Rahul Srivastava
I00061	200503	Lakshya Sharma	Chrip compensation of ultrafast pulses using spatial light modulator (SLM)	2023	Physics	Dr. Rohan Singh
I00062	200505	Shalini Pal	Engineering Topological hall effect in 4d -5d complex Oxide heterostructures	2023	Physics	Prof. Dhanvir Singh Rana
I00063	200506	Subrahmanyam Devarakonda	Longitudinal Magnetotransport in weyl semimetal	2023	Physics	Dr. Suhas Gangadharaiah
I00064	200507	Suman Debnath	Hamiltonian formulation of gravity theory	2023	Physics	Dr. Nabamita Banerjee
I00065	200508	Susmita Jana	Ultracold Aggregates of Nak molecules	2023	Physics	Dr. Sebastian Wuster