

Poster Presentation Date	regid	Name Upper	institute Short	papertitle
21-Dec-2024	QMAT2024_0002	KANAV SHARMA	IISER Kolkata	Impurity Bands in Topological Insulators
21-Dec-2024	QMAT2024_0004	SASWATA HALDER	TIFR Mumbai	Magnetic hard axis ordering in quasi one-dimensional antiferromagnet Ce3ZrBi5
21-Dec-2024	QMAT2024_0005	SAYAN GHOSH	SNBNCBS, Kolkata	Frustrated spin-1/2 model on Kagome Strip Chain: An analogy to Kugel Khomskii model
21-Dec-2024	QMAT2024_0008	NANDANA BHATTACHARYA	IISc, Bengaluru	Site-selective polar compensation of Mott electrons in a double perovskite heterointerface
21-Dec-2024	QMAT2024_0011	SUBHADEEP CHAKRABORTY	IISER Kolkata	Robust Majorana bound state in pseudo-spin domain wall of 2-D topological insulator
21-Dec-2024	QMAT2024_0012	KARTHIK KRISHNAN IYER	TIFR Mumbai	Exotic ferromagnetism in Nd2TSi3 (T= Pd, Rh) unlike other members of these rare-earth families
21-Dec-2024	QMAT2024_0015	PANKAJ KUMAR	IIT Mandi	Electronic and thermal transport properties of superconducting topological
21-Dec-2024	QMAT2024_0017	PRITAM PAL	IISc, Bengaluru	Low-frequency resistance noise in near magic-angle twisted bilayer graphene
21-Dec-2024	QMAT2024_0021	TUHIN DEBNATH	IACS, Kolkata	Critical Scaling Analysis and Magnetic Phase diagram of Mn intercalated TaS2
21-Dec-2024	QMAT2024_0022	ARKAJYOTI MAITY	Max Planck Institute for the Phys	Driven-dissipative fermionized topological phases of strongly interacting composite bosons
21-Dec-2024	QMAT2024_0026	IVAN DUTTA	NISER Bhubaneswar	Exactly Solvable Kitaev Spin-Orbital Bilayer Model
21-Dec-2024	QMAT2024_0027	CHANDAN KUMAR	SNBNCBS, Kolkata	Magnetic Microstate and Configurational Anisotropy Modulated Spin Wave Dynamics in Three-Dimensional Artificial Spin Ice
21-Dec-2024	QMAT2024_0034	PINAKI DUTTA	IIT Kharagpur	Prethermalization in the PXP Model under Continuous Quasiperiodic Driving
21-Dec-2024	QMAT2024_0036	SOURAV SARKAR	SNBNCBS, Kolkata	Correlation between Negative Dielectric Permittivity and Magnetism in spinel ferrite nano-structures
21-Dec-2024	QMAT2024_0037	MEDHA ROY CHOUDHURY	IISER, Kolkata	Evolution of BCS Superconductors following a Sudden Quench
21-Dec-2024	QMAT2024_0038	SUSWAPNA MUKHERJEE	SINP, Kolkata	Band tuning in 2d nanoplatelets due to Geometrical Curvature
21-Dec-2024	QMAT2024_0039	SUBRATA PACHHAL	IIT Kanpur	Entanglement signatures of a percolating quantum system
21-Dec-2024	QMAT2024_0040	ATHIRA RAGHU	UGC DAE CSR Mumbai Centre	Exploring microscopic origin of ferroelectric and magnetic properties in Lu2CoMnO6
21-Dec-2024	QMAT2024_0041	SANJAY SARKAR	IIT Kanpur	Resonant bulk photogalvanic effect in centrosymmetric metals
21-Dec-2024	QMAT2024_0042	SUNIT DAS	IIT Kanpur	Planar Hall Effect in Quasi-Two-Dimensional Materials
21-Dec-2024	QMAT2024_0043	SAYAN SARKAR	IIT Kanpur	Light Induced Resonant Nonlinear Spin Magnetization

21-Dec-2024	QMAT2024_0045	HARSIMRAN KAUR MANN	IISc, Bengaluru	Optical control of multiple resistance levels in graphene for memristic applications
21-Dec-2024	QMAT2024_0046	RUPALIPRIYADARSINI CHHATOI	NISER, Bhubaneswar	Magneto-elastic coupling effect in Co ₂ FeAl Heusler alloy deposited on flexible polyimide
21-Dec-2024	QMAT2024_0048	RATIRANJAN SAMAL	NISER, Bhubaneswar	Observation of Magnetic Skyrmions and Unusual Transport Phenomena in Tetragonal Ferrimagnet Mn ₂ Sb
21-Dec-2024	QMAT2024_0049	SUVRONIL DATTA	IISc, Bengaluru	Nonlinear electrical transport unveils Fermi surface malleability in a moiré heterostructure
21-Dec-2024	QMAT2024_0050	HARSH VARSHNEY	IIT Kanpur	Quantum kinetic theory of the nonlinear thermal currents
21-Dec-2024	QMAT2024_0052	PRIYANUJ RAJBONGSHI	IIT Tirupati	Topological Properties in a Curved Space-Time Su-Schrieffer-Heeger Model
21-Dec-2024	QMAT2024_0055	SONIA DESWAL	IIT Mandi	Frustrated spin-1 triangular lattice antiferromagnet Ca ₃ NiNb ₂ O ₉ : A proximate spin liquid
21-Dec-2024	QMAT2024_0060	MANAVENDRA PRATAP SINGH	IISc, Bengaluru	Fabrication of trench array of different depths and their application in the enhancement of the Raman & Photoluminescence intensity of monolayer MoS ₂
21-Dec-2024	QMAT2024_0064	AFSAR REJA	IISc, Bengaluru	Emergence of tunable exceptional points in altermagnet-ferromagnet junctions
21-Dec-2024	QMAT2024_0070	ATUL GANGARAM CHAKKAR	IIT Mandi	Tunable interaction between phonons and the continuum in Cr ₂ Ge ₂ Te ₆ : a possible 2D magnetic material for quantum sensing
21-Dec-2024	QMAT2024_0071	AKANSHA THAKUR	BITS, Pilani	Effect of Rashba Spin orbit coupling on monolayer and bilayer graphene
21-Dec-2024	QMAT2024_0072	SAYAN BANIK	NISER Bhubaneswar	Topological Magnetism and Superconductivity in Magnet-Superconductor Hybrid Systems
21-Dec-2024	QMAT2024_0073	AFSAR AHMED	SINP, Kolkata	Rare coexistence of Griffiths phase and spin glass state with intrinsic dominant anomalous Hall in inverse Heusler alloy Mn ₂ PdIn
21-Dec-2024	QMAT2024_0074	MINAKSHI SUBHADARSHINI	IOP, Bhubaneswar	Exploring topological phase transitions via Josephson current in p-wave superconductors with magnetic-textured barriers

21-Dec-2024	QMAT2024_0076	SUBHANKAR DE	SNBNCBS, Kolkata	Electric field-driven conformational modifications in metal-molecule-metal junction.
21-Dec-2024	QMAT2024_0077	SUNIL GANGWAR	IIT Mandi	Anomalous Hall effect and thermal transport in the magnetic nodal line semimetals: Mn ₃ XC (X = Sn, Ga)
21-Dec-2024	QMAT2024_0080	SAFIKUL ISLAM	IIT Kharagpur	Anomalous Hall effect in disordered Co ₂ TiSi Heusler alloy thin film: An Experimental and DFT study
21-Dec-2024	QMAT2024_0083	SULAGNA GHOSH	VECC, Kolkata	Adsorption of H ₂ Molecules over Hexagonal Boron Nitride Monolayer: A Combined DFT and Kinetic Monte-Carlo Study
21-Dec-2024	QMAT2024_0086	SAMPURNA KARMAKAR	IISER, Kolkata	Quantization of Thermal Hall Conductance under Edge Reconstruction
21-Dec-2024	QMAT2024_0088	BISWAJIT PAUL	NISER, Bhubaneswar	Realizing non-trivial doublon formation using a quantum computer
21-Dec-2024	QMAT2024_0089	JYOTI BISHT	JNU, New Delhi	Transmigration of Edge States with Interaction in Su-Schrieffer-Heeger Chain
21-Dec-2024	QMAT2024_0090	PRAGATI MUKESH PHERWANI	UGC-DAE CSR Mumbai Centre	Magnetization and neutron characterization of Kagome compound Nd ₃ Sb ₃ Mg ₂ O ₁₄
21-Dec-2024	QMAT2024_0091	NIRMALYA JANA	IIT Kanpur	Topologically protected antiferromagnetic metal
21-Dec-2024	QMAT2024_0095	SANU KUMAR GANGWAR	IIT Guwahati	Effect of spin-orbit and Rabi coupling on the modulational instability of spin-1 Bose-Einstein condensates
21-Dec-2024	QMAT2024_0098	SWATI SHAW	IIT Guwahati	Performance Parameters of Infra-red and Visible-active MXene Photocatalysts for Water Splitting
21-Dec-2024	QMAT2024_0099	SMITARANI MISHRA	IIT Tirupati	von Neumann entropy and quantum version of thermodynamic entropy
21-Dec-2024	QMAT2024_0100	KOUSHIK GHORAI	IIT Kanpur	Planar Hall Effect in Quasi-Two-Dimensional Materials
21-Dec-2024	QMAT2024_0102	RAJASHRI PARIDA	NISER, Bhubaneswar	Interaction driven topological phase transitions of hardcore bosons on a two-leg ladder
21-Dec-2024	QMAT2024_0103	TRUSHNA TRUPTIREKHA NAYAK	NISER, Bhubaneswar	Magnetic and transport properties of electron-doped triangular antiferromagnetic Mn ₃ Sn.
21-Dec-2024	QMAT2024_0104	SUBHAJIT PRAMANICK	IIT Kharagpur	Exploring anisotropic superconductivity in a ternary boride superconductor through Migdal-Eliashberg theory
21-Dec-2024	QMAT2024_0105	KAZI PARVEZ ISLAM	IIT Kharagpur	Origin of peculiar exchange bias phenomena in a hole doped rare-earth double perovskite series
21-Dec-2024	QMAT2024_0106	PRIYANKA MAJI	IIT Kharagpur	Origin of resistive state switching in titanate spinel with low threshold electric-field
21-Dec-2024	QMAT2024_0107	NASARU KHAN	IIT Mandi	Topological and antiferromagnetic ordering in two-dimensional van der Waals crystals of (NixFe _{1-x}) ₂ P ₂ S ₆ probed by Raman spectroscopy
21-Dec-2024	QMAT2024_0109	VAIBHAV KUMAR SINGH	IIT Tirupati	Quantum magnetism of Jeff = 1/2 2D Square lattice magnets.
21-Dec-2024	QMAT2024_0110	JYOTIRMAY MAITY	IISc, Bengaluru	Beyond being free: glassy dynamics of SrTiO ₃ -based two-dimensional electron gas
21-Dec-2024	QMAT2024_0112	J SRIDHAR MOHANTY	SNBNCBS, Kolkata	Subjugating extensive magnetostructural temperature window and giant magnetocaloric effect in B-doped MnNiSi hexagonal system

21-Dec-2024	QMAT2024_0113	MADHUSMITA BHUYAN	Sambalpur University, Burla	Enhanced Dielectric Performance of ZIF-8 through Nanoparticle Integration
21-Dec-2024	QMAT2024_0114	SMRUTIREKHA SAHOO	Sambalpur University, Burla	Multifunctional Graphene-Based metal oxide Nanocomposites towards Dielectric, Magnetic and Photocatalytic Activity
21-Dec-2024	QMAT2024_0115	ANUPAMA S	IISER, Pune	Strong spin-lattice coupling in two-dimensional CrTe ₂
21-Dec-2024	QMAT2024_0119	SHAWAN KUMAR JHA	IIT Guwahati	Energy spectra and fluxes of two dimensional turbulent quantum droplets
21-Dec-2024	QMAT2024_0124	SOURAV RUDRA	JNCASR, Bengaluru	Impact of Band-ordering Reversal and Scattering Mechanisms on Carrier Mobility in Scandium Nitride
21-Dec-2024	QMAT2024_0126	SUBINGYA PANDEY	IIT Guwahati	Enhanced biological and optical behaviour in biomedical Implants through Pulsed Laser Deposition Surface Coatings
21-Dec-2024	QMAT2024_0127	MOMIN HRANGBUNG	Manipur University, Imphal	Ultracold bosons in 2D optical lattices with long-range interactions and synthetic gauge potential
21-Dec-2024	QMAT2024_0128	KOHENJIT PEBAM	Manipur University, Imphal	Phase diagram of disordered extended Bose Hubbard model
21-Dec-2024	QMAT2024_0133	HARSHITA SHARMA	BITS, Pilani	Integrability and Periodic Driving in Quantum Metrology
21-Dec-2024	QMAT2024_0134	RENNA SHAKIR	RGIPT, Raebareli	Halogen Modification of Single-Atom Catalysts for Enhanced Electrocatalytic Hydrogen Evolution Reaction
21-Dec-2024	QMAT2024_0136	SACHCHIDANAND DAS	University of Hyderabad	Crossed Andreev reflection in altermagnets
21-Dec-2024	QMAT2024_0138	BIJAY KUMAR SAHOO	University of Hyderabad	Persistent currents in mesoscopic spin-orbit coupled rings due to an applied Zeeman field
21-Dec-2024	QMAT2024_0142	PALASH NANDI	IIT Kharagpur	Effect of W doping on Structural, Dielectric and Magnetic properties of Co-Zn Spinel Ferrites
21-Dec-2024	QMAT2024_0147	KOUSTAV ROY	IIT Guwahati	Single and multi-frequency driving protocols in a Rashba nanowire proximitized to a s-wave superconductor
21-Dec-2024	QMAT2024_0148	SHREYA DEBNATH	IIT Guwahati	Study of Magnon Band Topology in Antiferromagnets
21-Dec-2024	QMAT2024_0151	SADAF SADAF	University of Hyderabad	Quantum Correlation and entanglement in Cluster X-Y spin-chains in 1-D.
21-Dec-2024	QMAT2024_0153	SARVESH SHAMSUNDAR MEDHEKAR	IISc, Bengaluru	Coupled electron-phonon dynamics in polar semiconductors: A first-principles Boltzmann transport approach
21-Dec-2024	QMAT2024_0156	ATANU JANA	NISER Bhubaneswar	Universal properties of single-particle excitations across the many-body localization transition
21-Dec-2024	QMAT2024_0160	SAYAK BHOWMIK	Institute of Physics, Bhubaneswar	Realizing Fulde-Ferrell-Larkin-Ovchinnikov pairing assisted topological Majorana zero modes and superconducting diode effect in helical Shiba chain
21-Dec-2024	QMAT2024_0161	DEEP SINGHAROY	IACS, Kolkata	Room-temperature topological phase transition with Piel's instability in a quasi-one-dimensional Bi ₄ I ₄
21-Dec-2024	QMAT2024_0163	SASHIKANTA MOHAPATRA	IMSc, Chennai	Generic construction of volume-law entangled eigenstates in spin Hamiltonians

21-Dec-2024	QMAT2024_0164	SRINIDHI S	BITS Pilani	Quasi-Majorana Zero Modes in Kitaev Chains: The Role of Next-Nearest-Neighbor Couplings on Square Lattices
21-Dec-2024	QMAT2024_0165	SOVAN GHOSH	IISER Kolkata	Orbital Hall Conductivity in a Graphene/Haldane and Haldane/Haldane Bilayers
21-Dec-2024	QMAT2024_0167	BHUMIKA THOUDAM	Manipur University, Imphal	Quench dynamics of two-component quantum gases in optical lattice
21-Dec-2024	QMAT2024_0172	NALINIKANTA PRADHAN	IIT Guwahati	Cavity optomechanical detection of persistent currents and solitons in a bosonic ring condensate.
21-Dec-2024	QMAT2024_0173	SANKALPA BORA	HRI, Prayagraj	Theoretical quest for type-II band edge alignment and higher excitonic radiative lifetime of $\text{KBi}(\text{PS}_3)_2/\text{NaSb}(\text{PS}_3)_2$: An insight from strain manipulation
21-Dec-2024	QMAT2024_0174	ASHITA K BABURAJ	IISc, Bengaluru	First principles prediction of anharmonic phonon lineshapes and free energies in alkali halides beyond the quasiharmonic approximation..
21-Dec-2024	QMAT2024_0175	ANGOM LAXMI DEVI	Manipur University, Imphal	Enhancement of localization in 2D-disordered optical lattice due to long-range interactions
21-Dec-2024	QMAT2024_0176	DEBMALYA MUKHOPADHYAY	JNCASR, Bengaluru	Flexible Near-Infrared Plasmon-Polaritons and Electronic Transport in Scandium Nitride
21-Dec-2024	QMAT2024_0178	RANJU D	IISc, Bengaluru	Understanding the Dynamics and Correlations of Intralayer Moiré Excitons in WSe_2/WS_2 Heterostructure
21-Dec-2024	QMAT2024_0179	VIVEK KUMAR	IISc, Bengaluru	Layered Growth of 2D Magnetic Material
21-Dec-2024	QMAT2024_0180	SRIJATA LAHIRI	IIT Guwahati	Competing topological phases in a non-Hermitian time-reversal symmetry-broken Bernevig-Hughes-Zhang model
22-Dec-2024	QMAT2024_0181	KESHAV SHARMA	IIT Mandi	Low temperature Electrical and Thermal transport studies of 4H-NbSe_2 crystals
22-Dec-2024	QMAT2024_0183	MOHIT KUMAR JAT	IISc, Bengaluru	Higher order gaps in the renormalized band structure of doubly aligned hBN/bilayer graphene moiré superlattice.
22-Dec-2024	QMAT2024_0184	ABHIJEET MISHRA	HRI, Prayagraj	Theoretical Prediction of novel 2D Rashba Systems based on Inverse Design Approach
22-Dec-2024	QMAT2024_0185	TANIMA CHANDA	IISc, Bengaluru	Universality of Quantum Phase Transitions in the Integer and Fractional Quantum Hall Regimes
22-Dec-2024	QMAT2024_0186	NIVASH R	BITS Pilani	Probing topological phase transitions in Aubry-Andre-Harper model via high-harmonic generation
22-Dec-2024	QMAT2024_0187	TANDRIMA MITRA	IIT Guwahati	Efficient and Affordable Fabrication of Low Entropy Oxide: Exploiting Dual Band Gap Characteristics for Future Optoelectronic Devices

22-Dec-2024	QMAT2024_0188	PRARENA JAMWAL	IIT Ropar	Enhancement of superconductivity in ZrS ₂ C arising from phonon softening on transition from bulk to monolayer
22-Dec-2024	QMAT2024_0189	JOYDEEP MAJHI	IIT Bombay	Investigating Magnetocaloric Properties and Magnetic Anisotropy in NdMnO ₃ Perovskite: A Computational Study
22-Dec-2024	QMAT2024_0190	ASHES SHIT	IIT Kharagpur	Study on Exchange Bias effect in double perovskite Sm ₂ FeCrO ₆ owing to structural deformation-induced multiple magnetic phases
22-Dec-2024	QMAT2024_0191	AYUSHI TRIPATHI	HRI, Prayagraj	Efficient Ultrathin Solar Cells Based on TiS ₃ -NbS ₃ Van der Waals Hetero-surface
22-Dec-2024	QMAT2024_0192	RAJDEEP BISWAS	SNBNCBS, Kolkata	Investigating Topological Ferromagnetism in RMn ₆ Sn ₆ (R = Lu, Mg) Kagome Lattices: Impact of Dimensionality Reduction
22-Dec-2024	QMAT2024_0193	SUDIPTA MAJUMDER	IISER Pune	Correlation between chalcogen defects and electronic transport in Mo foil Grown monolayer MoS ₂ devices
22-Dec-2024	QMAT2024_0194	SOURAV MANDAL	IIT Guwahati	Tuning the Properties of MnAl Alloy for Rare Earth Free Magnet Applications
22-Dec-2024	QMAT2024_0195	DEBARGHYA DUTTA	IIT Bombay	Electronic and magnetic properties of Sr ₂ FeTiO ₆ implementing ab initio density functional theory
22-Dec-2024	QMAT2024_0196	DEBASHREE NAYAK	NISER Bhubaneswar	Josephson Junctions with ferromagnet-Heavy metal barrier
22-Dec-2024	QMAT2024_0198	SOUMYA RANJAN PADHI	NISER Bhubaneswar	Localization transition in non-Hermitian quasicrystals with long-range hopping
22-Dec-2024	QMAT2024_0201	SOUMYA DARSHAN SWAIN	IISc, Bengaluru	Ultrafast Transient Phonon Dynamics in Complex Crystals Predicted Using Deep Learning-accelerated First Principles Computations
22-Dec-2024	QMAT2024_0203	AMRITA MUKHERJEE	TIFR Mumbai	Designing higher-order saddle points and flat bands by long range hopping in kagome lattice
22-Dec-2024	QMAT2024_0204	TARANGA BORGHAIN	HRI, Prayagraj	Strain induced evolution of band edge alignment and excitonic lifetime in vdW heterostructure: A case study of CrMo ₃ S ₈ /CrW ₃ S ₈
22-Dec-2024	QMAT2024_0206	SAYAN PAUL	JNCASR Bangalore	Tuning Optical Phonons: An approach to achieve ultralow lattice thermal conductivity in TlIn _{0.5} Ga _{0.5} Te ₂
22-Dec-2024	QMAT2024_0209	TANIMA KUNDU	IACS, Kolkata	Modulation of Structural and Electronic Phases in Two-dimensional PdSe ₂
22-Dec-2024	QMAT2024_0210	RAHUL PARAMANIK	IACS, Kolkata	Unraveling the electronic structure of GeS correlated with optical and transport anisotropy
22-Dec-2024	QMAT2024_0211	SHEIKH MOONSUN PERVEZ	IOP, Bhubaneswar	Quantum Otto engine using Kitaev clusters
22-Dec-2024	QMAT2024_0213	RAHUL GHOSH	NISER Bhubaneswar	Study of interaction-driven phases in the half-filled Two-Dimensional Su-Schrieffer-Heeger model
22-Dec-2024	QMAT2024_0216	ARUNA GUPTA	BITS Pilani	Transport properties of the 2D SSH in Quantum Hall Regime
22-Dec-2024	QMAT2024_0217	ARNAB DAS	IIT Kanpur	Effect of doping on the chiral orbital currents of colossal magnetoresistance candidate material: Mn ₃ Si ₂ Te ₆
22-Dec-2024	QMAT2024_0218	TITHIPARNA DAS	IIT Kanpur	Emergence of Quantum Criticality in magnetic topological insulator

22-Dec-2024	QMAT2024_0221	SITARAM MAITY	NISER Bhubaneswar	Restoration of Aharonov-Bohm Caging and Inverse Anderson Transition in Interacting Bosonic Systems
22-Dec-2024	QMAT2024_0222	SMITA GOHIL	TIFR Mumbai	Magnetic properties of a rare-earth dichalcogenide compound, TbSe ₂
22-Dec-2024	QMAT2024_0224	AKSHAY KAMBLE	UGC-DAE CSR, Mumbai Centre	Evolution of Structural and Magnetic Properties in Fe _{1-x} Cr _x Al _{1-x} Alloys
22-Dec-2024	QMAT2024_0227	MANASA KALLA	NISER Bhubaneswar	Effect of inter coulomb interaction on the transport properties of a single molecular transistor in the presence of electron-phonon interaction
22-Dec-2024	QMAT2024_0229	MRINAL KANTI SARKAR	TIFR Mumbai	Signature of criticality in angular momentum resolved entanglement of scalar fields in $d > 1$
22-Dec-2024	QMAT2024_0231	ARGHYA DUTTA	TIFR Mumbai	Characterization of superconducting thin films using Planar Microwave resonator
22-Dec-2024	QMAT2024_0233	NAJNIN BANO	UGC-DAE CSR, Indore	Longitudinal and transverse conductivity measurements across the Verwey transition in Fe ₃ O ₄ thin film
22-Dec-2024	QMAT2024_0236	SHASHANK SRIVASTAVA	IISER Bhopal	Role of Spin-Orbit coupling in topological candidates: A Case Study of Pb _{2-x} Bi _x Pd
22-Dec-2024	QMAT2024_0238	PUSPITA PARUI	IISER Kolkata	Rashba spin-orbit coupling induced quantum valley anomalous hall phases in pseudospin-1 dirac fermions
22-Dec-2024	QMAT2024_0244	MANJU MADHUSOODANAN	University of Hyderabad	Unveiling the phonon topological features of inter-alkali metal sulphides RbXS (X=Li, Na)
22-Dec-2024	QMAT2024_0245	AMAR CHANDRASHEKHAR VERMA	University of Mumbai	BKT phase transition in mildly disordered superconducting anti-dot films of NbN
22-Dec-2024	QMAT2024_0250	AKASH MITRA	VECC, Kolkata	Ergotropy, bound energy and entanglement in 1D long range Kitaev model
22-Dec-2024	QMAT2024_0251	BIKRAM KESHARI BEHERA	University of Hyderabad	Measuring quantum efficiency of Photo-Carnot Engine via vanishing quantum coherence in a lossy cavity.
22-Dec-2024	QMAT2024_0253	SUSHMITA SAHA	IIT Indore	Floquet-Engineered Valley-Topotronics in Kekulé-Y Bond Textured Graphene Superlattice
22-Dec-2024	QMAT2024_0256	AISWARYA T	University of Hyderabad	Coexistence of Electron and phonon topology in Perovskite SrRuO ₃
22-Dec-2024	QMAT2024_0257	AMINUL HUSSAIN	IIT Dhanbad	Topological Phases of Conduction Band Modified p-wave Periodic Anderson Model
22-Dec-2024	QMAT2024_0259	DEBASMITA BALA	NIT, Andhra Pradesh	Glassy behaviour and correlated magnetic properties enhanced with Bi substitution at A-site in La ₂ NiMnO ₆
22-Dec-2024	QMAT2024_0260	NISA ARA	BITS, Goa Campus	Flat bands in Creutz ladder with Carroll symmetries
22-Dec-2024	QMAT2024_0261	NAZMA FIRDOSH	IIT Delhi	Canted antiferromagnetic order in MnBi ₄ Te ₇ single crystals
22-Dec-2024	QMAT2024_0264	MAHESH BALAJI BALWADE	IIT Bombay	Theoretical study of the electronic, magnetic, and transport properties of 3d transitional metal (Fe, Co) doped Bi ₂ Te ₃ using first-principles
22-Dec-2024	QMAT2024_0265	KANCHAN BALA	TIFR Mumbai	Structural and Magnetic Properties of SmAg ₂ Ge ₂ Single Crystal

22-Dec-2024	QMAT2024_0266	SACHIN NEGI	IIT Guwahati	Developing quantum architectures for laser inscribed SiV based integrated quantum photonics in diamond.
22-Dec-2024	QMAT2024_0268	HARSHITA SINGH	IIT Guwahati	Magnetic Compensation and Frequency Dispersion in Dynamical Susceptibility of Distorted Honeycomb Lattices
22-Dec-2024	QMAT2024_0274	ARPITA DEB SINGHA	IIT Guwahati	Canonical spin-glass dynamics in distorted Kagomé and Triangular lattices
22-Dec-2024	QMAT2024_0280	DIPANKAR POKHREL	IIT Guwahati	Conduction Mechanism in Mott-Hubbard Insulator LaTiO ₃
22-Dec-2024	QMAT2024_0281	NILOTPAL DEKA	IIT Guwahati	Unveiling the photophysical properties of Mn-doped FAPbI ₃ perovskites via a First-Principles Study
22-Dec-2024	QMAT2024_0284	SAIFIAN FAROOQ BHAT	IIT Guwahati	Nitrogen vacancy defects in diamond as a promising candidate for quantum sensing
22-Dec-2024	QMAT2024_0286	SK SOYEB ALI	Bennett University, Greater Noida	Strain induced electronic and magnetic transition in S=3/2 antiferromagnetic spin chain compound SbCrS ₃
22-Dec-2024	QMAT2024_0287	ARIJIT DATTA	IIT Guwahati	Enhanced Negative Magnetization in Ferrimagnetic Cobalt-Orthotitanate: Role of Jahn-Teller Active 2D _{5/2} d _{z²-y²-x²-y²} Cu
22-Dec-2024	QMAT2024_0288	IMLINOLA JAMIR	NIT Nagaland	Influence of Ni ²⁺ Substitution on Microwave X-Band Radiation Losses in Y-Type Hexaferrites
22-Dec-2024	QMAT2024_0289	ABHIRUP MUKHERJEE	IISER Kolkata	New Auxiliary Model Approach Towards Studying Correlated Electrons: Insights on pseudogap regime and non-Fermi liquid at $\tilde{\nu}_f = \frac{1}{2}$ -filling
22-Dec-2024	QMAT2024_0290	GONGOTREE PHUKAN	NIT Nagaland	Anisotropy and Dipolar Interaction Tunable CuFe ₂ O ₄ Nanoparticle for Magnetic Hyperthermia
22-Dec-2024	QMAT2024_0292	SWAYANG PRIYA MAHANTA	NISER Bhubaneswar	Spinterface Mediated Magnetic Properties of Co ₂₀ Fe ₆₀ B ₂₀ /Alq ₃ Heterostructures
22-Dec-2024	QMAT2024_0293	KSHITIJ SINGH RATHORE	NISER Bhubaneswar	Magnon mediated spin pumping by coupled ferrimagnetic garnets heterostructure
22-Dec-2024	QMAT2024_0295	HIMANSHU MURARI	IIT Guwahati	Symmetry lowering through surface engineering and improved thermoelectric properties in Janus MXenes.
22-Dec-2024	QMAT2024_0296	LATIKA JUNEJA	IIT Guwahati	Luminescent metal halide perovskite nanocrystals, their stability and applications.
22-Dec-2024	QMAT2024_0297	POULAMI MANNA	IISER Bhopal	Superconductivity in In-Sn system
22-Dec-2024	QMAT2024_0299	DEBABRATA SAHU	IIT Guwahati	Optimized Memristors Using Mixed Cation Perovskite FA _{0.90} Cs _{0.10} PbI ₃ with High On-Off Ratio and Low Power Consumption
22-Dec-2024	QMAT2024_0300	DEBRAJ DEBATA	IISER Kolkata	Competition between Entanglement and Symmetry Breaking in Kondo Effect under the Influence of local Magnetic field
22-Dec-2024	QMAT2024_0301	GARIMA CHOUDHARY	IIT Guwahati	Exploiting Two-Dimensional Bi ₂ Te ₃ Topological Insulator Metamaterials for Advanced Terahertz Applications
22-Dec-2024	QMAT2024_0302	SANJU NANDI	IIT Guwahati	Defect-Engineered Bi ₂ Te ₃ Ultrathin Film-based Optoelectronic Synapses for Neuromorphic Computing
22-Dec-2024	QMAT2024_0305	PRATYAY MUKHERJEE	IIT Dhanbad	Field-derivative Torque Induced Magnetization Reversal in Antiferromagnets and Ferrimagnets
22-Dec-2024	QMAT2024_0307	AYAN MONDAL	IISER Kolkata	Pressure induced flatbands in large angle twisted bilayer graphene

22-Dec-2024	QMAT2024_0308	SANJOY SUR ROY	IIT Guwahati	High green index electromagnetic interference shields with semiconducting Bi ₂ S ₃ fillers in a PEDOT:PSS matrix
22-Dec-2024	QMAT2024_0311	SULAGNA DUTTA	TIFR Mumbai	Development of 3-axis a low-cost compact cryogenic nanopositioner for low temperature scanning probe microscopy and point contact spectroscopy
22-Dec-2024	QMAT2024_0316	DIPENDU HALDER	IIT Guwahati	Parsing skin effect in a non-Hermitian spinless two-orbital model and its circuit realization
22-Dec-2024	QMAT2024_0319	APURBA MAJI	IIT Guwahati	Magnetic properties of non-collinear Heusler antiferromagnet Ru ₂ MnSi
22-Dec-2024	QMAT2024_0320	SIRSENDU GHOSAL	IIT Guwahati	Ultrahigh SERS Sensitivity of Niobium Pentoxide Nanoparticles Enabled by Oxygen Vacancy Engineering: Theoretical and Experimental Insights
22-Dec-2024	QMAT2024_0325	PRAGALBH KASHYAP	IIT Guwahati	Green-synthesis of Fluorescent Carbon Quantum Dots for application in sensing and ion detections
22-Dec-2024	QMAT2024_0326	BISWANATH PRAMANIK	IIT Guwahati	Magnetic and magnetic-transport property of NiCo ₂ O ₄ nanoparticles
22-Dec-2024	QMAT2024_0327	SUMAN KUMAR CHAKRABORTY	IIT Kharagpur	Phonon Dynamics in Reconstructed Moiré Superlattice of Engineered 2D Lateral Heterostructures
22-Dec-2024	QMAT2024_0336	SHIVAM SHARMA	INST Mohali	Conflux of Spin Nernst and Hall effect in topological insulator
22-Dec-2024	QMAT2024_0337	SUBHANKAR DEBNATH	IIT Guwahati	Two-dimensional material-based printed optoelectronic synapse for next-generation neuromorphic application
22-Dec-2024	QMAT2024_0339	MADAN MOHAN MAHANA	IIT Guwahati	Coherent population transfer with polariton states in circuit QED
22-Dec-2024	QMAT2024_0340	BARISHAN DAS	IISER Bhopal	Restricted Boltzmann Machine approach to solve Quantum Many-Body problems
22-Dec-2024	QMAT2024_0342	RONY BORAL	IIT Guwahati	Impurities induced vortex lattice melting and turbulence in rotating Bose-Einstein condensates.
22-Dec-2024	QMAT2024_0344	SHIVANGI CHUGH	TIFR Mumbai	Non-equilibrium theory for pump-probe spectroscopy
22-Dec-2024	QMAT2024_0360	MADHUMITA KUNDU	IIT Guwahati	Sensing food quality by silicene nanosheets : a Density Functional Theory study
22-Dec-2024	QMAT2024_0379	SANKALAN JAIN	Shiv Nadar Institution of Eminence	Majorana Fermions: perspectives and challenges in quantum computing
22-Dec-2024	QMAT2024_0381	BHAGWAT SINGH CHOUHAN	IIT Guwahati	Ultra-Broadband Terahertz Metamaterials for 6G and beyond
22-Dec-2024	QMAT2024_0382	BHAIROV KUMAR BHOWMIK	IIT Guwahati	Active Tuning of Polarization-Insensitive Quasi-BIC Mode in THz Metasurfaces
22-Dec-2024	QMAT2024_0388	MAYANK CHHAPERWAL	IISc, Bengaluru	>10 MHz emission rate from TMD-based single photon