

List of Contributory Speakers, ICQIF-2022

SN	Full Name	Affiliation	Title of talk
1	Ibukunoluwa Adebimpe Adisa	Creighton University, USA	Implementing quantum gates using length-3 dynamic quantum walks
2	Srishty Aggarwal	IISC Bangalore, India	Increased quantum speed limit in non-uniform magnetic field
3	Ali Ahanj	Khayyam University, Iran	Three-Spin Systems and the Pusey-Barrett- Rudolph (PBR) Theorem
4	Md Manirul Ali	Chennai Institute of Technology, India	Dynamical Crossover from Markovian to Non-Markovian Dynamics in the Strong Coupling Regime
5	Mir Alimuddin	IISER TVM, India	Local Quantum Measurement Demands Type-Sensitive Information Principles for Global Correlations
6	Natasha Awasthi	DIT University Dehradun, India	Universal quantum uncertainty relations between non-ergodicity and loss of information
7	Rajni Bala	IIT Delhi, India	Layered semi-quantum key distribution & secret sharing
8	Pratapaditya Bej	Bose Institute, India	Information-disturbance trade-off in generalized entanglement swapping
9	Anindita Bera	Nicolaus Copernicus University, Poland	A class of Bell diagonal entanglement witnesses in $C^4 \otimes C^4$: optimization and the spanning property
10	Some Sankar Bhattacharya	ICTQT, Poland	Local Quantum State Marking
11	Bihalan Bhattacharya	SNBNCBS, India	Generating and detecting bound entanglement in two-qutrits using a family of indecomposable positive maps
12	Anandamay Das Bhowmik	ISI Kolkata, India	From no causal loop to absoluteness of cause: discarding the quantum NOT logic
13	Atanu Bhunia	U of Calcutta, India	Nonlocality without entanglement: An acyclic configuration
14	Tanmoy Biswas	ICTQT, Poland	Fluctuation-dissipation relations for thermodynamic distillation processes
15	Daniel Burgarth	Macquarie University, Australia	One bound to rule them all: from Adiabatic to Zeno
16	Lorenzo Catani	Technische Universitaet, Germany	Why interference phenomena do not capture the essence of quantum theory
17	Priyabrata Char	U of Calcutta, India	Catalytic Transformations in Coherence Theory
18	Anubhav Chaturvedi	ICTQT, Poland	Quantum description of reality is empirically incomplete
19	Debarshi Das	SNBNCBS, India	Robust certification of arbitrary outcome quantum measurements without using entanglement
20	Soumya Das	ISI Kolkata, India	Maximum violation of monogamy of entanglement for indistinguishable particles by measures that are monogamous for distinguishable particles
21	Arun Kumar Das	SNBNCBS, India	Resource theoretic efficacy of a two qubit entangled state in a sequential network
22	Sagnik Dutta	IISER Kolkata, India	Operational Characterization of Multipartite Nonlocal Correlations
23	Stanislav Filatov	U of Latvia, Latvia	Ordering the processes with indefinite causal order
24	Arkaprabha Ghoshal	Bose Institute, India	Characterizing qubit channels in the context of quantum teleportation
25	Suchetana Goswami	CeNT, Poland	Coherence in Quantum Computation
26	Tamal Guha	U of Hong Kong, Hong Kong	On composition of multipartite quantum systems: perspective from time-like paradigm
27	Tathagata Gupta	ISI Kolkata, India	Information splitting and recombining: A blindly secure paradigm
28	Alexander Hahn	Macquarie University, Australia	Unification of Random Dynamical Decoupling and the Quantum Zeno Effect
29	Jonte R Hance	U of Bristol, UK	Does the Weak Trace Show the Past of a Quantum Particle?
30	A. V. S. Kameshwari	VIT Tamil Nadu, India	Role of entangling operators in Duopoly games
31	Tulja Varun Kondra	CeNT, Poland	Stochastic approximate state conversion for entanglement and general quantum resource theories
32	Seid Koudis	U of Naples Federico II, Italy	(Causal)-Activation of Complex Entanglement Structures in Quantum Networks
33	Anu Kumari	Delhi Technological University, India	Classification witness operator for the classification of different subclasses of three-qubit GHZ class.
34	Asmita Kumari	HRI, India	Luders bounds of Leggett-Garg inequalities, quantum channel, PT symmetric evolution and arrow-of-time
35	Amit Kundu	U of Calcutta, India	Nonlocality in Quantum Network scenario
36	Ananda Gopal Maity	SNBNCBS, India	Supremacy of indefinite causal order in quantum communication

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37	Ritajit Majumdar	ISI Kolkata, India	Optimizing Ansatz Design in QAOA for Max-cut
38	Vaisakh Mannalath	JIIT, India	Bounds on semi-device-independent quantum random number expansion
39	Arindam Mitra	IMSc, India	Layers of classicality in the compatibility of measurements
40	Brij Mohan	HRI, India	Quantum speed limits for information and coherence
41	Amit Mukherjee	SNBNCBS, India	Multiparty orthogonal product states with minimal genuine nonlocality
42	V Muthumanimaran	IIT Bombay, India	Near-Deterministic Weak-Value Metrology via Collective non-Linearity
43	Javid Naikoo	CeNT, Poland	Multiparameter estimation perspective on EP sensing
44	Sumit Nandi	SNBNCBS, India	Genuine multi-partite nonlocality by generalizing Wigner's approach
45	Neha Pathania	Jamia Millia Islamia, India	Quantifying Entanglement with Coherence
46	Ram Krishna Patra	IISER TVM, India	Mutually Unbiased Balanced Functions & Generalized Random Access Codes
47	Tapaswini Patro	BITS Pilani Hyderabad, India	Absolute fully entangled fraction from spectrum
48	Martin Plávala	Universität Siegen, Germany	Operational Theories in Phase Space: Toy Model for the Harmonic Oscillator
49	Tanumoy Pramanik	Institute of Physics, India	Physical interpretation of nonlocal quantum correlation through local description of subsystems
50	Arup Roy	A B N Seal College, India	Classical capacity of Quantum Channel: Still an emerging issue in Quantum Information
51	Saptarshi Roy	U of Hong Kong, Hong Kong	Gain in Performance of Quantum Teleportation with Uniformity-breaking Distributions
52	Debashis Saha	SNBNCBS, India	Unbounded advantage in communication complexity and semi-device independent quantum key distribution based on contextuality proofs
53	Sutapa Saha	ISI Kolkata, India	Quantum theory is exclusive: a distributed computing setup
54	Shubhayan Sarkar	Center for Theoretical Physics, Poland	Self-testing of any pure entangled state with minimal number of measurements and optimal randomness certification in one-sided device-independent scenario
55	Tanmay Singal	Nicolaus Copernicus University, Poland	Approximate 3-designs and partial decomposition of the Clifford group representation using transvections
56	Wojciech Stomczyński	Jagiellonian University, Poland	Morphophoric measurements and Urgleichung in self-dual Generalized Probabilistic Theories (joint work with Anna Szymusiak)
57	Sohail	HRI, India	Convolution algebra of superoperators and nonseparability witnesses for quantum operations
58	Chirag Srivastava	HRI, India	Recycled entanglement detection by arbitrarily many sequential and independent pairs of observers
59	Hari krishnan SV	IISER TVM, India	State space structure of tripartite quantum systems
60	Vimalesh Kumar Vimal	IIT Kanpur, India	Revival of Magnetization and Quantum correlations in Kitaev spin chain