

## (ISQCI 2024)

Date: 17<sup>th</sup> -18<sup>th</sup> December 2024

Venue: STPI, Kolkata

#### Program Agenda

Day 1: December 17, 2024				
1000 – 1050 Hrs	Inaugural Session by Hon'ble Dignitaries			
1050 – 1110 Hrs	High Tea			
1110 – 1140 Hrs	<u>Keynote Address</u> Quantum Computing and Quantum Technology	Prof. Arun Kumar Pati TCG CREST		
Vertical 1: Quantum Computing				
1145 – 1150 Hrs	Opening Remarks by Session Convenor	Shri Jitesh Choudhary C-DAC CINE		
1150 – 1215 Hrs	<u>Talk 01</u> The Era of Quantum Utility and Beyond	Dr. L Venkata Subramaniam IBM		
1215– 1240 Hrs	<u>Talk 02</u> On Demand Quantum circuits for a Quantum computer	<b>Dr. Anirban Bandyopadhyay</b> NIMS, Japan		
1240 – 1305 Hrs	<u>Talk 03</u> Multi-user Fiber-based & Free-space Trusted- node-free Secure Quantum Communication	<b>Dr. Joyee Ghosh</b> IIT Delhi		
1305 – 1310 Hrs	Concluding Remarks by Session Convenor	Shri Jitesh Choudhary C-DAC CINE		
1315 – 1415 Hrs	Networking Lunch			
	Vertical 2: Quantum Algorithms & Applica	tions		
1415 – 1420 Hrs	Opening Remarks by Session Convenor	<b>Dr. Ethirajan</b> C-DAC Chennai		
1420 – 1445 Hrs	<u>Talk 01</u> Novel robust parameters of optical waveguides: Precursors for efficient sensing and communication	<b>Prof. Prasanta K. Panigrahi</b> S'O'A University, Bhubaneshwar		



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1445 – 1510 Hrs	<u>Talk 02</u> Quantum Machine Learning Demystified	<b>Prof. Amlan Chakraborti</b> University of Calcutta
1510 – 1535 Hrs	<u>Talk 03</u> Quantum Algorithms & Applications	Shri Sivakumar Moorty Ernst & Young
1535 – 1600 Hrs	<u>Talk 04</u> Scaling Quantum Computational Workflow with Circuit Cutting	<b>Dr. Ritajit Majumdar</b> IBM
1600 – 1605 Hrs	Concluding Remarks by Session Convenor	<b>Dr. Ethirajan</b> C-DAC Chennai
1610 – 1630 Hrs	High Tea	
1630 – 1730 Hrs	Panel Discussion: Industry-Academia Synergy for Quantum Innovation and Impact Moderator: Prof. Amlan Chakraborti University of Calcutta	All speakers of the day
1830 – 1930 Hrs	Cultural Program	
1930 – 2100 Hrs	Networking Dinner	

Continued to the next page..



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Day 2: December 18, 2024		
0930 – 1000 Hrs	Breakfast	
1000 – 1020 Hrs	<u>Talk 01</u> Proposal of User-Authenticated DI-QSDC	<b>Dr. Goutam Paul</b> ISI Kolkata
	Vertical 3: Quantum Sensing	
1020 – 1050 Hrs	Keynote Address	Prof. Sukanta K. Tripathy Behrampur University
1050 – 1120 Hrs	<u>Thematic Session</u> C-DAC in Quantum Sensing	Mrs. Munmun Chakraborty C-DAC Kolkata
1120 – 1130 Hrs	High Tea	
1130 – 1135 Hrs	Opening Remarks by Session Convenor	<b>Prof. R. P. Singh</b> PRL Ahmedabad
1135 – 1200 Hrs	Talk 01 Quantum Sensing using Trapped Atoms and Trapped lons	Prof. Bimalendu Deb IACS Kolkata
1200 – 1225 Hrs	<u>Talk 02</u> Spontaneous Parametric Down Conversion and its Application in Quantum Sensing	<b>Prof. Kanik Palodhi</b> University of Calcutta
1225 – 1250 Hrs	Talk 03 Quantum sensing explorations at TCS on the cusp of the second quantum revolution	<b>Dr. Sourav Chatterjee</b> TCS Research
1250 – 1255 Hrs	Concluding Remarks by Session Convenor	<b>Prof. R. P. Singh</b> PRL Ahmedabad
1300 – 1400 Hrs	Networking Lunch	
1400 – 1450 Hrs	Thematic Address	<b>Dr. S D Sudarshan</b> C-DAC Bangalore
1450 – 1500 Hrs	High Tea	



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Vertical 4: Quantum Cryptography			
1500 – 1505 Hrs	Opening Remarks by Session Convenor	<b>Dr. Ch A S Murty</b> C-DAC Kolkata	
1505 – 1530 Hrs	Talk 01 Securing the Digital Future with Post-Quantum Cryptography	<b>Prof. Jawar Singh</b> IIT Patna	
1530 – 1555 Hrs	<u><b>Talk 02</b></u> TLS in the Post-Quantum Era: Challenges and Innovations	<b>Shri Gaurav Kumar</b> C-DAC Patna	
1555 – 1600 Hrs	Concluding Remarks by Session Convenor	<b>Dr. Ch A S Murty</b> C-DAC Kolkata	
1600 – 1625 Hrs	<u>Plenary Talk</u> The Quantum Mind: Architecting the knowledge in the age of Quantum Computing	<b>Shri Aditya Kumar Sinha</b> C-DAC Patna	
	Vertical 5: Quantum Al		
1630 – 1650 Hrs	Recent Initiatives towards Quantum Innovations by C-DAC	Shri Nishant Kumar Shekhar C-DAC Patna	
1650 – 1710 Hrs		Shri Jitesh Choudhary C-DAC CINE	

1710 – 1720 Hrs	Concluding Remarks	<b>Shri Aditya Kumar Sinha</b> C-DAC Patna
1720 – 1725 Hrs	Vote of Thanks and Valedictory	Shri Jitesh Choudhary C-DAC CINE