

Webinar on Quantum Networks: Realities and Opportunities

Quantum Networks: Realities and Opportunities

The objective of the webinar is to explore the possibilities of practical quantum communication systems design and deployment on a broader scale. Also it aims to provide an insight into quantum networks from an engineering perspective and be familiar with experimental realization, functioning and overall network operations. Overall, the workshop motivates academic and industry research communities to design a commercial quantum systems.

2nd December 2021

4:15PM to 7:30PM

Venue: Online

Webinar link

<https://bit.ly/3lqhp5E>

Schedule

4:15PM - Introductory remarks by Dr. N Sarat Chandra Babu, Executive Director, SETS Chennai & Dr. S. D Sudarsan, Executive Director, C-DAC, Bangalore

Session 1: Long distance quantum communications

Schedule: 4:30PM – 5:30PM

Speaker: Dr. Urbasi Sinha is a Professor at the Raman Research Institute, Bangalore, India. Her research interest includes Experimental Quantum Information and Quantum Computing, QKD using satellites – towards Quantum Internet, Experimental Quantum Cryptography, Quantum Entanglement Studies.

Session 2: Building a Quantum Technology Ecosystem of the future: - An Industry Perspective

Schedule: 5:30PM – 6:30PM

Speaker: Dr. Sonali Mohapatra is the Space Applications Lead at the space engineering practise, Craft Prospect based in Glasgow. She leads the development of innovative quantum tech and AI applications for smart space futures using small satellites called CubeSats.

Session 3: Practical Challenges in Quantum Networks and Solutions

Schedule: 6:30PM – 7:15PM

Speaker: Dr. Natarajan Venkatachalam, currently Scientist at SETS Chennai has worked in the cyber-security area for nearly 12 years. His research on Secure Quantum communications and experimental quantum key distribution systems focused on the fundamental and applied quantum cryptography at heart of the quantum communication and technology.

7:15PM – 7:30PM : Quantum Simulator demo by Mr. Henry Sukumar, Joint Director, C-DAC, Bangalore