Strategy and Synergy for Security

Society for Electronic Transactions and Security (SETS)

MGR Knowledge City, CIT Campus, Taramani, Chennai – 600113 www.setsindia.in

About Webinar

Quantum technology is an interdisciplinary field of physics and engineering, which relies on principles of quantum physics. Quantum communication, a sub field in quantum technology, more closely related to quantum information processing and transfer, has the most interesting application in terms of protecting information against eavesdropping, using quantum cryptography. The most well researched and developed application of quantum cryptography is quantum key distribution (QKD). QKD ensures Information-theoretic secure key exchange between two communicating parties, which is the need of the hour, owing to the rapid development in the field of quantum computing. Through this webinar, experts from R&D labs and academic institutions, would try to establish a foundational understanding on quantum communication and discuss the steps required to be taken to get India into the development race.

WEBINAR ON

QUANTUM COMMUNICATION

Date: 19th September 2020 (Saturday) Time: 10:00am to 4:30pm

Opening Remarks by

Dr. R. Chidambaram

Former Principal Scientific Adviser to the Government of India Homi Bhabha Chair, Bhabha Atomic Research Centre

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Keynote Address	
Challenges and Opportunities in Building the Quantum Internet	
by	
Prof. Dr. Anil Prabhakar	
Department of Electrical Engineering, IITM, Chennai	
Invited Talk / Speakers	
Public Key Cryptography in a Quantum World	Free space quantum communication: The way
by	forward to satellite based quantum communication
Dr. Prabha Mandayam	by
Assistant Professor	Prof. Dr R.P. Singh
Department of Physics, IITM, Chennai	Atomic, Molecular and Optical Physics Division,
	Physical Research Laboratory, Ahmedabad
A Frequency-Domain Approach to Quantum Key	Implementation Vulnerability Analysis of Quantum
Distribution in Fibre-Optic Channels	Cryptography
by	by
Dr. K. Pradeep Kumar	Mr Dillibabu S
Associate Professor	Scientist
Department of Electrical Engineering, IIT Kanpur	Hardware Security Research Team, SETS, Chennai

INSTRUCTIONS

Webinar Link: We will share the link for the webinar through the email for registered participants.

Note: Scientist/ Working Professionals/ Faculty / Scholars may attend the above said webinar.

All are requested to register through the following link for the above webinar (No Registration Fee)

Registration Link: https://bit.ly/3k4l2Li

For more details:

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