The Workshop on Quantum Technologies (WQT)

With 2025 set to be the International Year of Quantum Technologies celebrating the 100 years since the initial development of quantum mechanics, and after a highly successful launch of QCom(P), the first international workshop on Quantum Communication and Computing at COMSNETS 2024, we are now ready to make it bigger, better, and broader. Hence, going forward, we have expanded the scope and now present the **Workshop on Quantum Technologies (WQT)**, which will be co-located with COMSNETS 2025 and will encompass all 3 major drivers of quantum technology as of today: sensing, communications, and computing. Given the developments happening in India through the **National Quantum Mission (NQM),** the WQT aims to also present the vibrant atmosphere of the Indian Quantum Ecosystem to our audience including the recent launch of NQM supported Hubs and Startups.

The goal of this workshop is to bring together quantum researchers, scientists, engineers, entrepreneurs, developers, students, practitioners, educators, and programmers working in this field. In this context, the workshop also intends to include the topic of understanding what it takes to bring more of the technology from an academic setting to real-world applications based on the industry requirements and technology development roadmap.

In a single-day event, the WQT will feature keynotes from three stellar speakers: *Prof. Alexander Huck, Prof. Antoine (Jack) Jacquier,* and *Prof. Prabha Mandayam,* 4 contributory talks, 15 poster presentations, and an industry session consisting of short talks from *QuantumBasel, Quantum AI Global,* and *Qruise*. The accepted submissions can be found on our webpage, and will be archived in IEEE Xplore. We would like to thank our Technical Program Committee members whose efforts have enabled a technically detailed and highly competitive review process. Finally, these unique achievements of the WQT have been possible primarily because of generous sponsorships from key players including *QuantumBasel, Quantum AI Global,* and *Qruise.*

On behalf of the organizing and steering committee, we cordially welcome you to the WQT. It offers a very strong and a vibrant technical program that has attracted registrations from students, faculty members and industry professionals from India and abroad. We believe that collaboration between industry, academia, the public sector and not-for-profit organizations is imperative to facilitate not only a national but also a global impact of the second

quantum revolution. With the intent of achieving this goal, the WQT aims to bring all these players together, aligning with India's journey to create a global impact in quantum technologies.

We eagerly look forward to your participation at the workshop

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