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|  | **International telecommunication union****Telecommunication Standardization Bureau** |  |
|  | Geneva, 19 March 2021 |
| Ref: | **TSB Circular 303**TSB Events/XA | **To:**- Administrations of Member States of the Union;- ITU-T Sector Members;- ITU-T Associates;- ITU Academia |
| Contact: | **Xiaoya YANG**  |
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| E-mail: | tsbevents@itu.int | **Copy to:**- The Chairmen and Vice-Chairmen of ITU-T Study Groups;- The Director of the Telecommunication Development Bureau;- The Director of the Radiocommunication Bureau |
| **Subject**:  | **Quantum Information Technology (QIT)** **Webinar series****(Fully Virtual Meetings, 8 April, 28 April, and 26 May 2021)** |

Dear Sir/Madam,

1 The International Telecommunication (ITU) is organizing a series of webinars on [**Quantum Information Technology (QIT)**](https://www.itu.int/en/ITU-T/webinars/Pages/qit.aspx) with the aim of sharing information and latest development on QIT to ICT stakeholders that would be impacted by the rapidly developing field .

This Webinar series will explore **innovative QIT applications, their security implications and the implications they impose on classical computing and ICT networks;** share lessons learned from current implementations of QITs and discuss corresponding roadmaps towards building quantum networks. The first three episodes of the Webinar series will be on the topics below:

1. **Cybersecurity in the quantum era on** 8 April 2021 at 3:00 – 5:30 pm CEST
2. **Joint Symposium on Quantum Transport Technology** on 28 April 2021 at 3:00 – 5:30 pm CEST
3. **Quantum Information Technology (QIT) for networks – Applications and use cases** on 26 May 2021 at 3:00 – 5:30 pm CEST

2 The first episode on **“Cybersecurity in the quantum era”** is jointly organised by the ITU and the European Telecommunications Standards Institute (ETSI) as the opening of the cybersecurity track at the WSIS Forum 2021. This episode will examine Quantum Key Distribution (QKD) and Post-Quantum Cryptography (PQC) by discussing the merits and perceptions of each in the context of what may constitute a solution that is “good enough” from the perspective of data security truths and acceptances as well as practical scalability due to Physical Layer limitations and integration, and deployment costs. Roadmaps to ensure cybersecurity in facing the challenge of quantum computing will also be explored and the roles QKD and PQC may play in a co-existing landscape.

3 The second episode **“Joint Symposium on Quantum Transport Technology”** is jointly organised by the ITU and the International Electrotechnical Commission (IEC). This episode will introduce the latest advances in quantum transport and bring together international scientists and engineers from the quantum research community and applicable mainstream industries to discuss the feasibility of, and scope the challenges to, the commercial realisation of quantum transport. In particular, it will discuss how quantum transport capability can be integrated into existing infrastructures and the corresponding roadmap to building different implementations of quantum transport network.

4 The third episode **“Quantum Information Technology (QIT) for networks – Applications and use cases”** will explore use cases and applications of QITs, including those in computing, sensing, and cybersecurity, and the implications they may have for future telecommunications networks. Enabling technologies will also be discussed as they directly relate to Quantum Communications use cases.

5 Participation in these webinars are open to ITU Member States, Sector Members, Associates and Academic Institutions and to any individual from a country that is a member of ITU who wishes to contribute to the work. This includes individuals who are also members of international, regional and national organizations.

6 All relevant information pertaining to the webinars, (speakers, registration links, remote connection details) will be made available on the [main landing page](https://www.itu.int/en/ITU-T/webinars/Pages/qit.aspx) and the respective event websites below. These websites will be regularly updated as new or modified information becomes available. Participants are requested to check periodically for new updates.

Episode 1: <https://www.itu.int/net4/wsis/forum/2021/Agenda/Session/266>

Episode 2: <https://www.itu.int/en/ITU-T/webinars/20210428/Pages/default.aspx>

Episode3: <https://www.itu.int/en/ITU-T/webinars/20200526/Pages/default.aspx>

Yours faithfully,

Chaesub Lee
Director of the Telecommunication
Standardization Bureau