

Quantum technology (QT) is expected to bring about disruptive innovation (Quantum Leap) in society. MEXT has launched Q-LEAP program (2018-2028) to drive such innovation in the following QT fields; Quantum Information Technology, Quantum Metrology & Sensing, and Next-Generation Laser.

The Topical Conference on Quantum Computing 2019 (TCQC2019) promotes international collaborations and new-generation activities for success in this challenging QT field. The TCQC2019 will provide also a Joint Poster Session with other QT fields for interdisciplinary communication towards cooperative innovations.

Organizer

Ministry of Education, Culture, Sports, Science and Technology (MEXT)

Supported by

Cabinet Office (CAO)

Ministry of Internal Affairs and Communications (MIC)

Ministry of Economy, Trade and Industry (METI)

Date: December 17 - 18, 2019

Venue: Kyoto Brighton Hotel

Nakadachiuri, Shinmachi-Dori, Kamigyo-ku, Kyoto 602-8071, Japan

<https://www.brightonhotels.co.jp/kyoto/en/>

Program:

Tue. Dec. 17 14:00 - 15:30 (Registration starts at 13:30)

Venue : Room Kumoi

Opening Remarks Kohei Itoh (Keio Univ.)

Session 1: Quantum Software

Invited speakers: Keisuke Fujii (Osaka Univ.), Jay Gambetta (IBM),

Frank Wilhelm-Mauch (Saarland Univ.)

Panel Discussion

Tue. Dec. 17 16:00 - 18:00

Venue : Room Reika

Joint Poster Session

Wed. Dec. 18 9:00 - 17:00

Venue : Room Kumoi

Session 2: Keynote Talks

Keynote speakers: Jake Taylor (NIST), Tommaso Calarco (Forschungszentrum Jülich),

Seigo Tarucha (RIKEN)

Session 3: Selected Young Researchers Session

Invited speakers: Yutaka Tabuchi (the Univ. of Tokyo), Satoshi Moriyama (NIMS),

Ryutaro Ohira (Osaka Univ.), Marta Pascual Estarellas (NII)

Session 4: Quantum Simulation

Invited speakers: Matthias Weidemüller (Heidelberg Univ.), John Doyle (Harvard),

Kenji Ohmori (IMS)

Panel Discussion

Closing Remarks Shiro Kawabata (AIST)

Registration site <https://www.jst.go.jp/kisoken/crest/isqt2019/index.html>

Language: English

Maximum participants: 120

Contact: HQ Secretariat, Q-LEAP Quantum IT email: hq_qleap_qc@ml.riken.jp