

The 5th KMI School

Quantum Computing for Particle Physics and Astrophysics

Nagoya University, KMI Science Symposia
March 5-7, 2024



Lectures/Hands-on

Quantum Computing for Particle Physics and Astrophysics

Koji Terashi, Tatsumi Nitta, Shion Chen,
Yutaro Iiyama (ICEPP, University of Tokyo)

Topical seminars

Introduction to Quantum Computation and Its Application in Particle Physics
Kosuke Mitarai (Osaka University)

Quantum Machine Learning in High Energy Physics
Sofia Vallecorsa (CERN)

Wavelike Dark Matter with SRF cavities and Superconducting Qubits at SQMS
Raphael Cervantes (FNAL)

Overview of the Superconducting Quantum Materials and System
Sam Posen (FNAL)

Quantum error correction and high energy physics
Tatsuma Nishioka (Osaka University)

Analogue black hole solitons in a superconducting transmission line
Haruna Katayama (Hiroshima)

Quantum Technologies with Hybrid Systems
Yuimaru Kubo (OIST)

Contact

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<https://www.kmi.nagoya-u.ac.jp/workshop/kmi-school-2024/>



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ICEPP
The University of Tokyo



国際高等研究機構
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