NTU Q

SELECTED NEWS

2021 Ion-trap quantum computer workshop

The rapid development of quantum technology in recent years has led to a recent wave of worldwide competition in science and industry, and the second quantum revolution has also started globally. The ion-trap qubits have inherent identity and long coherence time. Experiments have shown the highest quantum logic fidelity and the largest controllable quantum entangled state.

Recently, the company that use ion trap as a platform are making rapid progress. Honeywell has proposed a quantum computer with a quantum volume of up to 512, and IonQ has an IPO this year. The development potential and tech of this quantum system deserves everyone's attention .

 "Taiwan Association of quantum computation and information technology(TAQCIT)" invited Taiwan's quantum ion trap experts to share their valuable knowledge to promote Taiwan's quantum technology, so that everyone in Taiwan can better understand the current development of quantum technology, and improve Taiwan's competitiveness in this wave of quantum revolution.

Link

Topic	Speaker
Introduction ion-trap quantum computer	‣ Dr. Ming-Shien Chang, Principal Investigator Institute of Atomic and Molecular Sciences, Academia Sinica
Scalability for ion-trap platform	‣ Dr. Guin-Dar Lin, Assistant Professor Department of Physics, NTU
Development and current situation in Taiwan: Opportunity and Challenge	‣ Dr. Shih-Kuang Tung, Assistant Professor Department of Physics, NTHU
Global development situation on the ion-trap quantum computer	‣ Dr. Hsiang-Yu Lo, R&D Project Manager and Scientist, ABB Research Switzerland

IBM QUANTUM CHALLENGE 2021

The fifth anniversary of IBM Quantum will be held during the period of May 20th through May 27th. They provide five programming exercises, participants have chance to test their coding skill and push their limits to higher level.

Join this activity and build the future together.

IBM challenge

THE QISKIT GLOBAL SUMMER SCHOOL IS RETURNING

Qiskit summer school is back, July 12-23, 2021. This time, the course will focus on quantum machine learning (QML). Students can learn how to using the new Qiskit machine learning application module.

registration will open on May 26, 2021 at 12:00 PM EST*.

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IONQ'S COMPUTING PLATFORM NOW AVAILABLE THROUGH QISKIT

IonQ announced that the Qiskit user can submit their programs directly to IonQ's platform without write any new code. Open-source provider library has already been released in Qiskit Partners GitHub Organization. Developer can also download this by The Python Package Index.

READMORE

IBM Quantum Computer Hub at National Taiwan University

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