| SELECTED NEWS

Honeywell announced the most powerful Quantum Computer

On June 18, Honeywell claimed that it has built the world's most powerful quantum computer, at least twice faster than those operated by Google or IBM. Within a stainless steel chamber, individual atoms floated above a chip are targeted with lasers to perform calculations. The whole machine is cooled by liquid helium to nearly absolute zero which atoms stop vibrating. Honeywell's machine has achieved a Quantum Volume of 64 (The latest IBM's machine, Raleigh, has a Quantum Volume of 32.). Going forward, Honeywell plans to increase the Quantum Volume bt a factor of 10 annually for the next five years.

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D-Wave & NEC sign an agreement for commercial quantum computing

The agreement focuses on development of hybrid applications, sales, and marketing of quantum cloud service. This collaboration will build upon D-Wave's existing traction in the high-impact japanese market.

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John Preskill joins AWS center

John Preskill, a theoritical physicist at CalTech, has been an Amazon Scholar at AWS Center for quantum computing. This has been a quarter of interesting move with John Martinis departing Google last month and point to increase cross-pollination between business and academia.

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2020 Qiskit Global Summer School

Thw Qiskit Global Summer School is an online two-week event (July 20 - July 31) that will teach students with little quantum computing experience to write algorithms, understanding superconducting device and solving problems in quantum chemistry with Qiskit. Anyone with familiarity with matrix multiplication and some programming experience in Python is welcome.

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| RELEVANT INTERESTING RESEARCH
- Quantum machine learning in high energy physics
- Operation of a silicon quantum processor unit cell above one kelvin
- Multicarrier continuous-variable quantum key distribution
- Quantum correlations between light and kilogram-mass mirrors of LIGO
- Spin-momentum-locked edge mode for topological vortex lasing
- Observation of quantum phase synchronization in spin-1 atoms

| COMING EVENTS

QST 2020 |Taitung, Taiwan
QST (Quantum Science and Technology) 2020 aims to bring the researchers of related subjects in QST to interacts and collaborates their recent findings. The invited speakers of the workshop will include both experimenalists and theorists. The event will be held from August 19 to August 21 at National Taitung University (Taitung Campus). For more information, please click the link below.

REGISTRATION

Young Researchers Forum on Quantum Information Science |NTHU, Taiwan
The forum will take place at NTHU on August 26-28 this year and have both contributed talk and poster session.

REGISTRATION

AMO Physics Summer School 2020 |Nantou, Taiwan
The Atomic, Molecular and Optical Summer School will be held at Hui-Sun Forest this year from Aug. 31 to Sep. 03. The experts will give lectures and tutorial in related fields.

REGISTRATION

Summer Workshop for Open-source Quantum Computing Software |NCKU, Taiwan
The worsop will give tutorials on QuTip, Qiskit for which are based on Python. The participants can learn how to build on quantum system and simulate its time evolution and experience the interesting properties of quantum. The workshop is open for the graduate students who have learnt Quantum Mechanics. The workshop is from July 29 to July 31 and the registration due date is July 10, 2020.

REGISTRATION