NTU Q

MEET THE QUANTUM OPEN SCIENCE PRIZE WINNERS

IBM announced that their judges have selected the winners of the second annual IBM Quantum Awards: Open Science Prize. This contest began in November of 2021, and promised a $40,000 award for the most-accurate simulation of a quantum Hamiltonian using one of two methods, plus a bonus $20,000 to the overall winner. The theme of this challenge is quantum simulation, because the simulation of physical systems is a potential application in the near-term quantum computers. To be more specifically, the competitors have to simulate a Heisenberg model Hamiltonian for a three-particle system on the 7-qubit IBM Quantum Jakarta processor.

The overall winner of this contest are Tom O'Leary and Benjamin Jaderberg from the University of Oxford, and Abhishek Agarwal from the National Physical Laboratory (NPL), London. They minimized device errors by using Incremental Structural Learning (ISL) to find approximate shallower equivalents off the Trotterised Hamiltonian and applying measurement calibration (MC).

Source: IBM

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MAKE QUANTUM BETTER BY JOINING THE IBM QUANTUM FEEDBACK PROGRAM

IBM launched the IBM Quantum Feedback Program to make their systems and tools more powerful, frictionless and easy to use. IBM has already improve several of their products and services on feedback projects, such as Qiskit Runtime, IBM Quantum Composer and Lab, as well as the IBM Quantum website.

This program is available to all IBM Quantum users and even to people who don't use their products and services. The joiner of this program, begin by filling out a short survey. After successful review of the submission, The joiner will be added to the program. Program members will be emailed about scheduling a time to connect when they are a potential match for a feedback project.

Source: IBM

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