Citing Quantinuum H-Series Hardware

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Third-Party Citations in Academic Papers

Quantinuum produces and provides access to trapped ion quantum computers. This document provides guidelines on how to cite use of Quantinuum's H-Series quantum computers for third-party academic papers. If you would like to reference Quantinuum hardware in another context, such as a press release, please contact Quantinuum at press@quantinuum.com.

Models

A quantum computing model is a generation of Quantinuum hardware using a specific ion trap geometry. To refer to the model of a Quantinuum quantum computer, state "System Model HX" where X designates the specific geometry of the ion trap. Note that the name follows Title Case.

Example System Model H1 is a generation of quantum computers with a single linear geometry.

Machines

Individual Quantinuum machines are designated by the "HX-Y" nomenclature where X is the quantum computer's model and Y is the specific device.

Example The Quantinuum H1-1 and H1-2 quantum computers are two quantum computers using the System Model H1 design.

Emulators

Quantinuum emulators model individual quantum computers. For example, the H1-2 emulator emulates the H1-2 quantum computer. To reference use of an emulator, state "HX-Y emulator" for the specific emulator used.

Example This experiment used the Quantinuum H1-2 emulator.

Research Papers

All research papers running experiments on Quantinuum quantum computers should cite the specific device and dates of the experiment. For example:

Quantinuum H1-1. https://www.quantinuum.com/, June 20-22, 2022.

If experiments were run on more than one individual machine, note this as follows:

Quantinuum H1-1, H1-2. https://www.quantinuum.com/, June 20-July 15, 2022.