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Type: **Plenary**

Practical Quantum Computing for Scientific Applications

Tuesday, 25 October 2022 10:00 (30 minutes)

Trapped ion is the leading candidate for realizing practically useful quantum computers, as the system features highest performance quantum computational operations. Introduction of advanced integration technologies has provided an opportunity to convert a complex atomic physics experiment into a stand-alone programmable quantum computer. In this talk, I will discuss recent technological progress that changed the perception of a trapped ion system as a scalable quantum computer and enabled commercially viable quantum computer. I will also discuss several application areas where quantum computers can make a practical contribution to the computational frontier in scientific applications.

Experiment context, if any

References

Significance

Presenter: KIM, Jungsang**Session Classification:** Plenary