

Indian Institute Of Science, Bangalore



IISc Quantum Technology Initiative (IQTI)



Special Lecture on Running algorithms on ion-trap quantum computers

By

Dr. Sonika Johri

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Abstract

A variety of Near-term Intermediate-Scale Quantum (NISQ) computing platforms are rapidly becoming available for access over the cloud. These systems are characterized by a limited number of qubits and available computing time. Combined with innovative error mitigation techniques, these systems may soon begin to surpass classical computers in some application areas. In this talk, I will give an introduction to NISQ computers and discuss recent demonstrations of their use in studying diverse problems in machine learning as well as condensed-matter physics.

About the Speaker

Dr. Sonika Johri is a Senior Applications Researcher at IonQ, a start-up commercializing trapped ion quantum computers. She has a PhD in theoretical condensed matter physics from Princeton University. From 2014-2019, she worked as a quantum algorithms researcher at Intel Corporation. She is a leading expert in designing algorithms and software for near-term quantum computers.



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