

Quantum Simulations in Nuclear Physics

A coordinated mini-lecture series on quantum information science for nuclear physics

March 9 - 20, 2020 • Jefferson Lab

The development of practical quantum simulation technologies and algorithms for applications in nuclear science demands a new generation of nuclear scientists, equipped with knowledge in both nuclear physics and advanced computing technology. Under the new DOE initiative on Quantum Horizons: QIS Research and Innovation for Nuclear Science, we are organizing a mini-lecture series at Jefferson Lab to provide young nuclear physicists with the most up-to-date knowledge and practical skills in applying quantum computing and quantum information science to nuclear physics. The series will feature committed lecturers, including nuclear theorists and computational scientists, who are leaders in applying quantum computing technologies to evaluate nuclear properties and in developing quantum computing technologies and algorithms for the challenging computational problems in nuclear science. The lecturers will also host organized working group discussions.

The lecture series will take place at Jefferson Lab over the weeks of March 9-13 and March 16-20. A limited amount of travel funds will be available, and students and young researchers are encouraged to apply.

www.jlab.org/Lecture-QIS-MAR2020

ORGANIZING COMMITTEE:

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