

Linear Response on a Quantum Computer

Wednesday, 12 September 2018 11:15 (25 minutes)

Dynamics in quantum systems is notoriously difficult to treat. We demonstrate an exponential speed-up for quantum linear response as measured in electron and neutrino scattering. I will discuss some very preliminary work we have done and prospects for further studies using both classical computers to simulate quantum computers and quantum computer applications.

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Session Classification: Session 2