

# Formulating Gauge Theories for a Quantum Computer

*Wednesday, September 12, 2018 9:00 AM (40 minutes)*

I will discuss some motivations for studying gauge theories on a quantum computer, and basic features of gauge theories in a Hamiltonian formulation. In particular, I will discuss issues regarding Gauss's law and cutoffs on the Hilbert space, both of which have to be confronted for simulations on a quantum computer.

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**Session Classification:** Session 1