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## **Gluon Field Digitization for Quantum Computers**

Thursday, 6 August 2020 15:00 (20 minutes)

The efficient digitization required for the quantum simulations of QCD can be obtained by approximating continuous SU(3) gluon fields by discrete subgroups. In this talk, we discuss on-going efforts to develop this program of digitization: deriving improved discrete group lattice actions, classical simulations for quantifying systematic errors, and implementable circuits for digital quantum computers.

**Primary author:** LAMM (\*), Henry (Fermilab)

Co-author: NUQS COLLABORATION

Presenter: LAMM (\*), Henry (Fermilab)

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