

Abstract Submitted
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Non-stoquastic XX couplers for superconducting flux qubits
DAVID FERGUSON, RYAN EPSTEIN, KENNETH ZICK, Northrop Grumman Corporation — The design of non-stoquastic qubit coupling systems enable small-scale adiabatic optimizers to exhibit uniquely quantum effects that are believed to be beyond any practical classical simulation techniques at the 50-100 qubit level. This talk will describe an innovative XX coupler design, developed by Northrop Grumman Corporation, that may allow the experimental exploration of this important regime.

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