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“Based on our previous work, we evaluate the possibility of implementing and testing quantum walk algorithms and quantum neural network algorithms using as hardware the optical lattice made by interfering cold atoms. Recent evidence for the implementation of qubit gates using atomic interferometry opens the possibility to address the qubit-environment interaction noise problem that we also encounter on data analysis of gravitational wave signals on quantum computers.

Poster Abstract

Session Classification: Poster Session

Track Classification: Theory/Simulations/HEP