Abstract Submitted
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Dynamical decoupling and quantum error suppression in adiabatic quantum computation KEVIN YOUNG, Sandia National Laboratories — Adiabatic quantum information processing, like other quantum computing paradigms, is susceptible to noise which can potentially spoil a computation. This talk will address two proposed methods to utilize stabilizer codes to combat such noise: dynamical decoupling and quantum error suppression. A combination of numerical and analytical techniques will illustrate the connections between these two approaches. The talk will conclude with a discussion of the practical advantages of dynamical decoupling over quantum error suppression.

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