## Abstract Submitted for the APR21 Meeting of The American Physical Society

**Projected cooling in quantum spin models**<sup>1</sup> ERIK GUSTAFSON, University of Iowa — I demonstrate a proof of principle application of the quantum computing algorithm, Projected Cooling, for ground state preparation of the transverse Ising model and Abelian Higgs model in (1+1)-dimensions. I also will briefly discuss how the method can be used for lattice gauge theory models in higher dimensions

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Erik Gustafson University of Iowa

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