

Abstract Submitted
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Annealing of Embedded Spin Glasses SALVATORE MANDRA,
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oratory (QuAIL) — We discuss recent results on thermal and quantum annealing
of random spin glasses on fully-connected graphs and on fully-connected bipartite
graphs. After the description of the embedding of their classical Hamiltonian onto
Chimera graphs, we discuss what are the optimal embedding parameters, in relation
with the signatures of the quantum phase transitions occurring during the anneal-
ing. Finally, we compare numerical simulations and analytical expectations for both
the embedded spin glass models with results on the non-embedded models and with
runs on D-Wave Machine installed at NASA Ames.

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