

ANDREW KING

TITLE: Taking advantage of expanded qubit connectivity in the D-Wave Advantage processor

ABSTRACT:

The newly available D-Wave Advantage processor offers significant expansion of the qubit connectivity graph, with over 5000 qubits and up to 15 couplers per qubit. In this talk I will present some early results taking advantage of this connectivity. On the way I will present important methods for fine-tuning quantum simulations; these are crucial tools for suppressing crosstalk and getting the best possible experimental results on sensitive degenerate systems.