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A Moments Based Estimate of Trial State Fidelity for Variational Quantum Computation

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We present a new parameter s_* , determined by Hamiltonian moments $\langle \varphi | \hat{H}^n | \varphi \rangle$, as an estimate of the overlap between a trial state $|\varphi\rangle$ and energy eigenstates of the problem Hamiltonian.

Author: CREEVEY, Floyd

Co-authors: HILL, Charles (The University of Melbourne); VALLURY, Harish; HOLLENBERG, Lloyd; JONES, Michael

Presenter: CREEVEY, Floyd

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