qflow documenation

JN

January 7, 2021

1 Terminology

VMC simulation - A complete VMC simulation using

2 qflow.training

qflow.training.train(psi, H, sampler, iters, samples, gamma, optimizer, verbose, $call_backs$, $call_back_resolution$)

- 1. psi Wavefunction class from qflow.wavefunctions
- 2. H Hamiltonian class from qflow.hamiltonians
- 3. sampler Sampler class from qflow.samplers
- 4. iters Number of complete VMC simulations used during training
- 5. samples -
- 6. gamma -
- 7. optimizer -
- 8. verbose -
- 9. call_backs -
- 10. call_back_resolution -

3 qflow.Hamiltonian

qflow. Hamiltonian.optimize_wavefunction(psi, sampler, iterations, samples, optimizer, gamma, verbose)

- 1. psi Wavefunction class from qflow.wavefunctions
- 2. sampler Sampler class from qflow.samplers
- 3. iterations Number of complete VMC simulations used during training
- 4. samples -
- 5. optimizer -
- 6. gamma -
- 7. verbose -

optimize_wavefunction uses a 0.2 burn-in ratio to the total samples in each iteration.