

Sprint Backlog Grooming Meeting Minutes:

Attendees: Christopher Kverne, Nathan Lioe-A-Tjam, Isabella Anthony

Start time: 03/23/2026 4:00pm

End time: 03/23/2026 4:20pm

The tasks below are completed from the previous week.

- Task 18: Run Experiments for stratified QAOA for layers 1,2,4,8 and 10 Qubit counts.
- Task 19: Run Experiments for stratified VQA for layers 1,2,4,8 and 10 Qubit counts.
- Task 20 : Implement the Dually-Flat QNG Optimizer and run it for VQE problems

The tasks below are created for the upcoming week.

- Task 21: Test dually flat QNG against QNG on VQE problems for various qubit counts.
- Task 22: Compute the variance of the Riemann Hessian elements as the number of qubits grow (1-10 qubits).
- Task 23: Finish the theoretical scaling theorem in section 4 of the paper.
- **Task 24: Test DFS-QNG on QAOA problem for 2-10 qubits**
- **Task 25: Test DFS-QNG on another H2 Hamiltonian for 2-10 qubits**
- **Task 26: Prepare structure for poster**