

Guidelines and Rubric for Weekly Meeting 05/11/2023 (5th week)

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5 points

1. (2 pts) *Previous Meeting Items* List action items from the previous meeting and update the status.

- Optimizing and improving on the state-of-the-art colcomm and autocomm procedures by inventing a new way to decompose circuits for increased fidelity
- Implemented the rest of the collective operations
- Implemented the ising model and phase estimation with our QMPI framework

2. (2.5 pts) *Future Plan* List short-term action items with a target deadline.

- Look at fidelities and other applications to improve our interface
- Optimization of some collective operations including broadcast and all to all operations

3. (0.5 pts) *Problems* List any problems, including communication and technical problems.

- No problems at the moment. Any questions were asked and resolved
- Resolved communication problems