

sdmay23-24: Quantum Computing

Week 3 Report

October 17 - October 21

Team MembersNicholas Greenwood — *Qubits / Admin*Jacob Frieden — *QML / Design Team*Sam Degnan — *Error Correction / Design Tea,*Arvid Gustafson — *Noise / Design Team / Physical Layout*Colin Gorgen — *Quantum Gates / Design Team*Emile Albert Kum Chi — *Chip Design / Design Team***Summary of Progress this Report**

We did not have an in-person meeting during this period, due to multiple people being absent. Everyone did their own research on ion-trap QCs.

Pending Issues

Integration of ideas, to be handled next week

Plans for Upcoming Reporting Period

Continue researching ion-trap technology and possible implementations

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Nicholas Greenwood	Filled out most of this week's design doc section	4	0
Jacob Frieden	Finished reading state of the art paper, reviewed and submitted design doc	6	0
Sam Degnan	Read QC Fundamental book	3	
Arvid Gustafson	Read about existing Yt QCs, edited design doc	6	0
Colin Gorgen	Read QC book	3	
Emile Albert Kum Chi	Looked into physical chip structure and how the ion trap is used to measure electron state	5	0

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Gitlab Activity Summary

Nothing to report.
