

sdmay23-24: Quantum Computing

Week 3 Report

October 10 - October 14

Team MembersNicholas Greenwood — *Qubits / Admin*Jacob Frieden — *QML*Sam Degnan — *Error Correction and Question List Keeper*Colin Gorgen — *Quantum Gates*Arvid Gustafson — *Design / Noise / Coherence Time*Emile Albert Kum Chi — *Design production / Physical Implementation***Summary of Progress this Report**

During this meeting, we dove deeper into the QC design. We spoke about questions we had after last meeting and how those would impact the design of the QC. We discussed ion-trap organization and layering within the physical wafers.

Pending Issues

NA

Plans for Upcoming Reporting Period

Continue reading papers and digging into citations. Further understanding and flesh out details of QC design elements. Simulation of proposed ion transfer between traps. No meeting next week, potential meeting amongst team members though

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Nicholas Greenwood	Talked about questions with group and took notes, all forms and administrative stuff	8	0
Jacob Frieden	Added multiple questions to the list, thoroughly read papers to contribute to conversation	8	0
Sam Degnan	Read Mike and Ike book, added to question list, discussed questions	8	
Colin Gorgen	Looked over Honeywell's papers about their QC	8	
Arvid Gustafson	Came up with physical design and spearheaded that discussion	8	0
Emile Albert Kum Chi	Looked in wafer manufacturing. Note: Wasn't	5	0

	at weekly meeting		

Gitlab Activity Summary

Nothing to report.
