

sdmay23-24: Quantum Computing

Week 2 Report

October 3 - October 7

Team MembersNicholas Greenwood — *Qubits*Jacob Frieden — *QML*Sam Degnan — *Error Correction*Arvid Gustafson — *Noise and Noise Reduction*Colin Gorgen — *Gates*Emilie Kum Chi Albert — *Hardware integration***Summary of Progress this Report**

Spoke about the Physics Nobel prize (violation of Bell inequality) and its ramifications

Talked about ion-trap QC design and requirements

Pending Issues

Design of multi-Ion Trap design

Plans for Upcoming Reporting Period

Work on Design of multi-Ion Trap design

Continue reading and researching

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Nicholas Greenwood	Contributed to discussion, worked on Ontology	8	0
Jacob Frieden	Contributed to discussion, did reading on QML	8	0
Sam Degnan	Contributed to discussion, read Mike & Ike, made presentation	8	
Arvid Gustafson	Participated in discussion, Watched YouTube playlist on QC, investigated gates	8	0
Colin Gorgen	Contributed to discussion, Qiskit, Youtube	8	
Emilie Kum Chi Albert	Participated in discussion, investigated in hardware implementation	8	

Gitlab Activity Summary

Nothing to report.
