Temporary Report of Weekly Meetings

Week 1, 09/01/23:

* Went through basics of QM; Superposition – Entanglement, Bell states, Bloch Sphere, Representation of states and conversion of dimensionality, conversion of basis\*
* Made many blunders – need to revisit basics and make ppt of such and teach/learn myself
* Made GitLab account, got myself acquainted with it.
* LaTeX is something that I should learn and present topics with. Need to start with it and learn syntax for it.

Week 2, 17/01/23:

* Did presentation of quantum states, density matrix and basic QRC
* Presentation personally was inadequate, poorly written, done and explained
* Need to understand theory much better, I have done some notes on density matrices and on dynamical systems
* Paper by Gosh, read through and highlighted important bits. I understand a lot better now what the paper entails
* I got much better with GitLab and how it works, managed to organize files and such through bash command
* Looked at the Lindblad equation, schro equation a general linblad equation, still need to understand the formulation more

Week 3, 24/01/23:

* Did presentation of qrc
* Presentation slightly better
* Need to understand theory much better and explanation of H
* Talked more about H and how it is described
* Fidelity and how that is described.

Week 4, 31/01/23:

* Talked more about the H
* Need to do a short writeup explaining just the Hamiltonian and fidelity
* Went through some preliminary coding protocode and logic
* Latex introduction – started formatting thesis
* Might get introduced to matlab