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Meeting 2

1 message

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Wed, May 20, 2020 at 1:47 PM

To: Ravi Rai <rv704237@dal.ca>, Julien Ross <neil.jr.ross@gmail.com>

Hey Ravi,

Here are the notes from today's meeting, for what they are worth.

Some items on the todo list:

- * Fix item 5 in the proof of the proposition of elementary properties of the stabilizer (your draft contains a proof that is actually too strong).
- * Fix the code.
- * Fix the example of non stabilizer state (the bell pair is actually a stabilizer state).

Some questions:

- * How do states with the same stabilizer compare? We know that if $|a\rangle$ and $|b\rangle$ are equal up to a global phase then their stabilizers are equal. Is the converse true?
- * Can answering the above question help us in proving or disproving the fact that stabilizer states are exactly the states of the form $C|0\rangle$ for some Clifford operator C ?

Further along:

- * keep progressing through the paper.

And good job, the draft is looking nice already!

Julien

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