

550/650 – Projects Quiz

Name: _____

Student ID: _____

1. What were the 4 physical qubits presented by the groups?

For each question below you may pick ANY of the qubits above.

You may use different qubits for each answer. BUT you must specify the qubit!

2. What is the quantum state of the qubit that encodes $|0\rangle$? (specify qubit)
3. What is the excited state of the qubit that encodes $|1\rangle$? (specify qubit)
4. What is the order of magnitude of the frequency difference between the $|0\rangle$ state and $|1\rangle$ state? (e.g. 10MHz, 100GHz?) (specify qubit)
5. What is the applied field used to couple the $|0\rangle$ state and $|1\rangle$ state? (specify qubit)
6. What interaction between the qubits is used to mediate logical operations for two qubit gates? (specify qubit)