Optimization Report

General Parameters

Chip Name: e.g. the 5 qubit chip, unless we have codenames
Targeted Qubits: e.g. Q1, Q4
Date and Time: 2021-07-28 11:13:01

Gate: iSWAP
Fidelity: 0.99966
Modulation Time: 50.96699 ns
Energy Levels per Qubit: 4

Signal Parameters

Signal Shape:

$$\Phi(t) = \Theta + \delta(t)\cos(\omega_\Phi t)$$

Amplitude Modulation:

$$\delta(t) = \delta_0 \cdot S(t)$$

Parameters of Optimal Signal:

Θ: -0.42124 [Φ_0]
δ_0: 0.03604 [Φ_0]
ω_Φ: 0.56555 GHz
Total Modulation Time of $\delta(t)$: 50.96699 ns
Rise Time of Modulation (0 to 100%): 25 ns

Circuit Parameters

Frequencies:

Q1: 4.7381 GHz
Q2: 4.1762 GHz
Coupler: 8.96 GHz

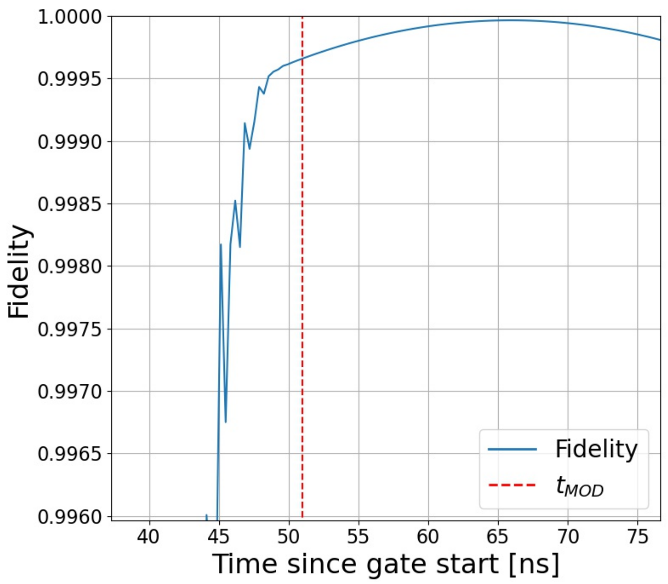
Anharmonicities:

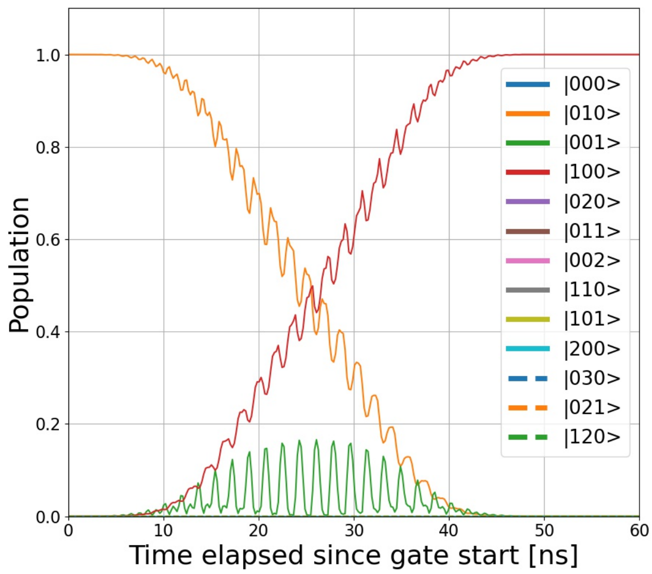
Q1: -0.221 GHz
Q2: -0.23 GHz
Coupler: -0.08 GHz

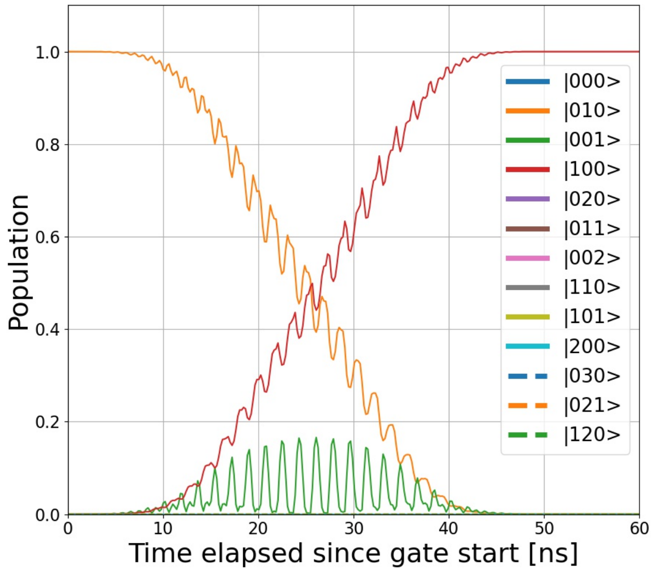
Coupling Strengths:

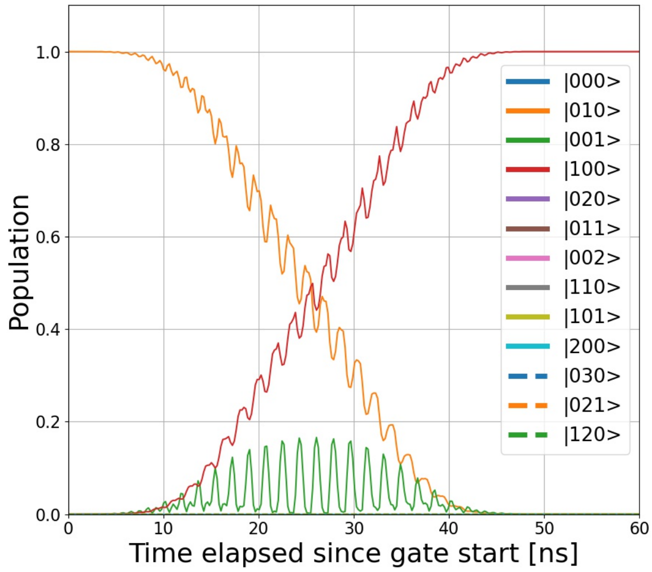
Q1 to Coupler: 0.0545 GHz
Q2 to Coupler: 0.05552 GHz

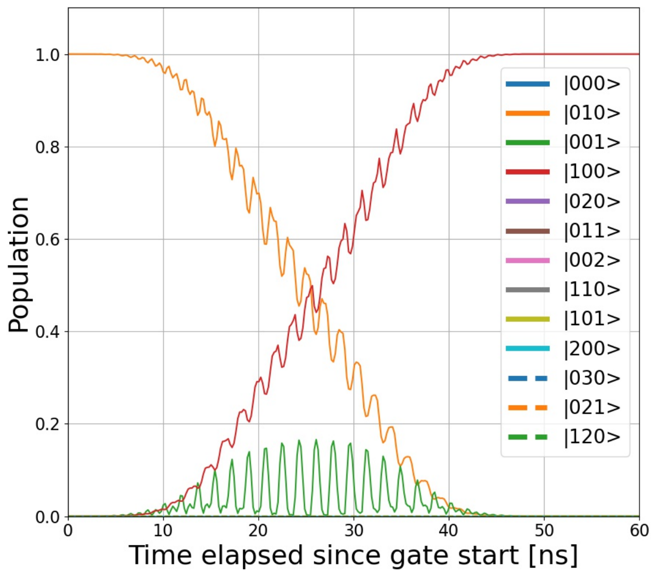
Graphs

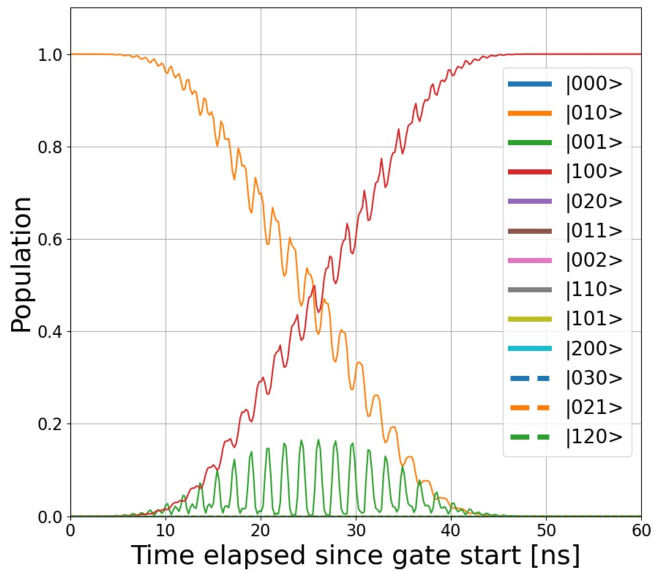









Population
Time elapsed since gate start [ns]
|000>
|010>
|001>
|100>
|020>
|011>
|002>
|110>
|101>
|200>
|030>
|021>
|120>


Population
Time elapsed since gate start [ns]
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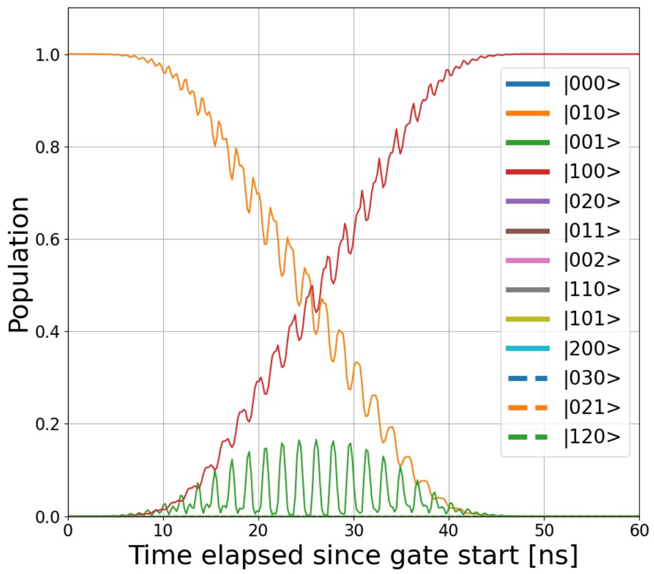
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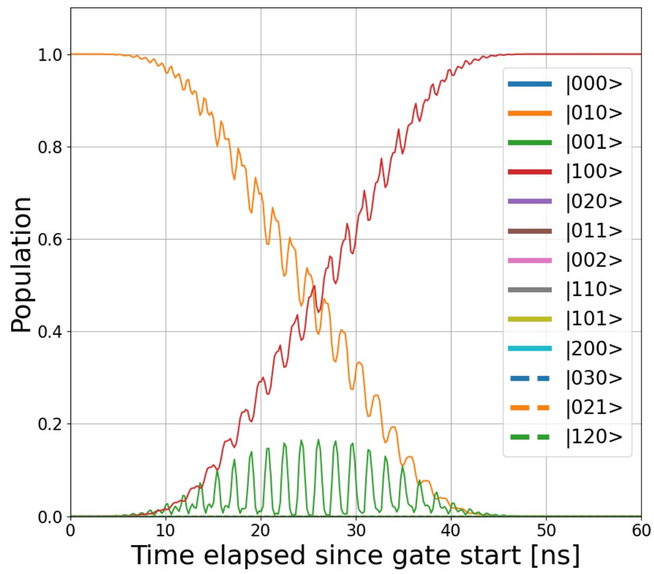
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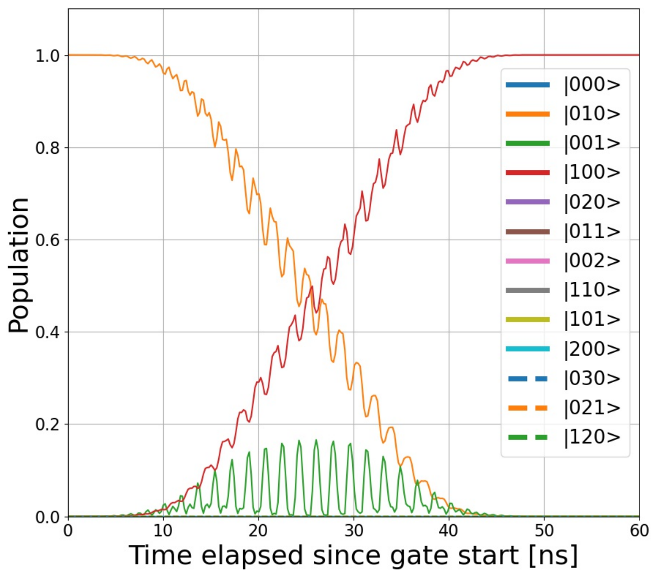
Population
Time elapsed since gate start [ns]
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