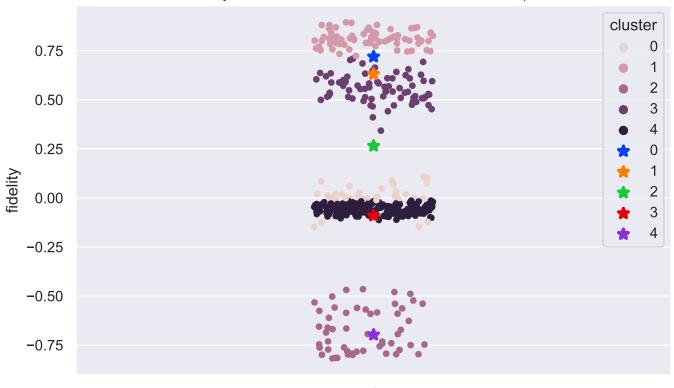Y Fidelity Clusters, 4 Randomizations, 8 CNOT Repetitions