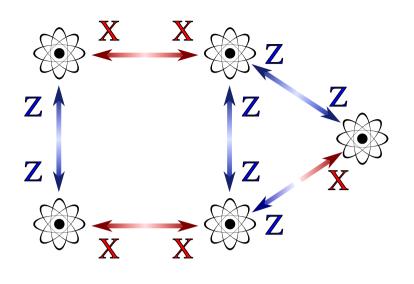
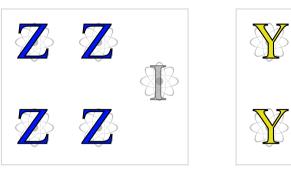
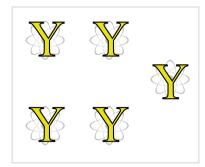
## The 5-Qubit Error-Detecting Code

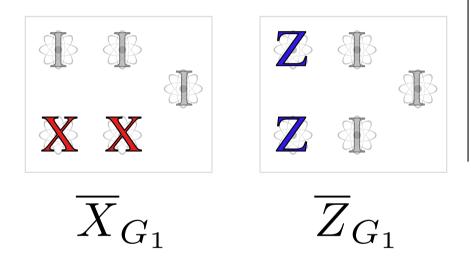




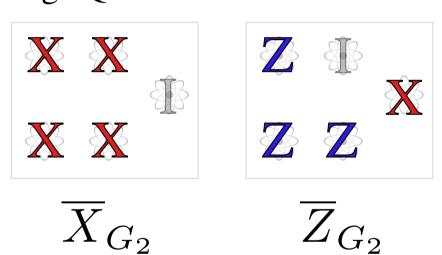




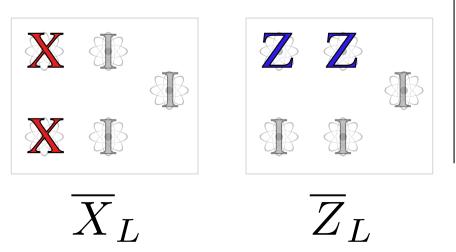








## Logical Qubit



By exhaustive search, we have shown that this code is the \*only\* 5-qubit Ising graph code that has error-detecting properties!

We have found many others, including a large number of error-correcting codes in systems of 9 through 13 physical qubits.