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Diagram of a 4-qubit quantum circuit for the Shor code. The circuit consists of three stages separated by vertical bars. Stage 1: Qubit 0 is initialized to 2. Qubits 1 and 2 are initialized to 0. Qubit 3 is initialized to 2. A CNOT gate is applied from Qubit 0 to Qubit 1. Stage 2: Qubit 0 is initialized to 2. Qubit 1 is initialized to 1. Qubit 2 is initialized to 1. Qubit 3 is initialized to 0. A CNOT gate is applied from Qubit 0 to Qubit 1. Stage 3: Qubit 0 is initialized to 2. Qubit 1 is initialized to 0. Qubit 2 is initialized to 2. Qubit 3 is initialized to 0. A CNOT gate is applied from Qubit 0 to Qubit 1. The final state of the circuit is 2 0 2 0.

The diagram shows a 16-bit bus system with three 8-bit components. The first component has a 4-bit data bus (0-4) and a 4-bit address bus (0-2). The second component has a 4-bit data bus (2-4) and a 4-bit address bus (2-0). The third component has a 4-bit data bus (0-2) and a 4-bit address bus (2-0). The bus is labeled with H, Po, and H Po.

The first system of the musical score for 'The Rose Tree' consists of a single staff with a treble clef and a key signature of one flat (B-flat). The melody is written in a simple, folk-like style. It begins with a quarter note G4, followed by a quarter note A4, and then a quarter note Bb4. The next measure contains a quarter note G4, a quarter note F4, and a quarter note E4. The melody continues with a quarter note D4, a quarter note C4, and a quarter note Bb3. The system concludes with a quarter note A3, a quarter note G3, and a quarter note F3. The tempo is marked 'Allegretto' and the time signature is 3/4.

Diagram illustrating a quantum circuit for the $H'Po$ algorithm. The circuit involves three qubits. The top qubit is initialized with a Hadamard gate (H). The circuit then consists of several CNOT gates: a CNOT from the top qubit to the middle qubit, a CNOT from the middle qubit to the bottom qubit, a CNOT from the top qubit to the bottom qubit, and a CNOT from the middle qubit to the top qubit. The circuit concludes with a measurement on the top qubit, resulting in a classical output of 000.