

by光頭

F

The diagram illustrates a quantum circuit over 16 time steps. The top section shows the state of four qubits (q3, q2, q1, q0) as a sequence of binary digits (0 or 1). The bottom section shows the quantum circuit with gates and measurements. The circuit includes CNOT gates and measurements on q3 and q0 at various time steps.

Time Step	q3	q2	q1	q0
0	1	1	0	0
1	3	3	0	1
2	3	3	0	1
3	3	3	0	1
4	3	3	0	1
5	3	3	0	1
6	3	3	0	1
7	3	3	0	1
8	3	3	0	1
9	3	3	0	1
10	3	3	0	1
11	3	3	0	1
12	3	3	0	1
13	3	3	0	1
14	3	3	0	1
15	3	3	0	1

Fm

C7

Harm.

Dm

F

Gm

C7

The first system of musical notation for 'The Little Boat' consists of a treble clef, a key signature of one sharp (F#), and a 2/4 time signature. The melody is written on a five-line staff. The notes are: G4 (quarter), A4-B4 (beamed eighth notes), C5 (quarter), B4-A4 (beamed eighth notes), G4 (quarter), F#4 (quarter), E4 (quarter), D4 (half). The bass line is written on a five-line staff. The notes are: D3 (half), E3 (quarter), F#3 (quarter), G3 (quarter), A3 (quarter), B3 (quarter), C4 (quarter), D4 (half). The system ends with a double bar line.

Dm

F

Gm

C7

[illegible]

F

32 3 3 3 0 1 3 5 1 0 1 0 1 1 3 1 0 0 0 1

Dm Gm7 Bb C F

36 3 3 3 8 3 5 3 1 1 0 1 0 1 0 3 0 0 1 0

Gm7 C F Gm7 C F

40 1 0 1 3 0 1 0 1 0 1 3 3 4 1 0

Bbm Fm Bbm F

44 3 1 3 3 4 5 0 3 3 3 3 3 3 3 3 1 3 1 3