

NO-CLONING THEOREM



Diagram illustrating the No-cloning theorem. It shows two identical atoms on the left, with a glowing line representing a quantum state being transferred to a second atom on the right. The background is dark blue with glowing particles.

1-2

2

2 3 1

LLOYD'S PROOF OF FEYNMAN'S CONJECTURE



Diagram illustrating Lloyd's proof of Feynman's conjecture. It features a glowing, transparent cube containing a complex internal structure, possibly representing a quantum circuit or a simulation of a physical process. The background is dark with blue highlights.

1-2

3

1 1

INTERACTION-FREE MEASUREMENT




Diagram illustrating interaction-free measurement. It shows a glowing green spiral pattern in the center, surrounded by radiating lines, suggesting a quantum state or a measurement process. The background is dark with green highlights.

1-2

3

1 3

HEISENBERG LIMIT



Diagram illustrating the Heisenberg limit. It shows a silhouette of a person standing on a path that leads into a vast, glowing space filled with many small, glowing cubes or particles. The background is dark with blue and green highlights.

1-2

3

1 1

GROVER ALGORITHM

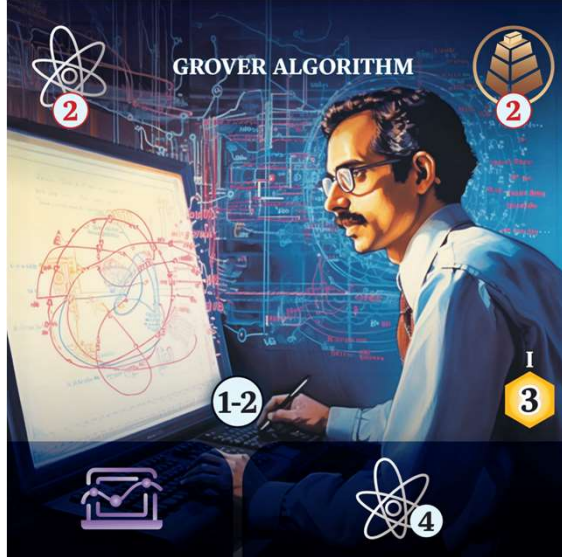


Diagram illustrating the Grover algorithm. It shows a man in a white shirt and glasses looking at a computer screen displaying a complex network diagram. The background is dark with blue and red highlights.

1-2

3

4

FEYNMAN CONJECTURE



Diagram illustrating Feynman's conjecture. It shows a man in a white shirt and tie pointing at a whiteboard with a complex diagram on it. The background is dark with blue and white highlights.

1-2

3

4

POST-QUANTUM CRYPTOGRAPHY

2 2

1-2 2

1 3

1 2

QUANTUM RANDOM NUMBERS

2 2

1-2 2

1 4

1 2

RYDBERG ATOMS IN OPTICAL TWEEZERS

2 2

1-2 2

1 4

1 2

NV-CENTERS IN DIAMONDS

2 2

1-2 3

1 4

1 2

QUANTUM FOURIER TRANSFORM

2 2

1-2 3

1 3

1 2

QUANTUM OPTIMAL CONTROL

2 2

1-2 2

1 1

1 1

SUPERCONDUCTING QUBITS

2 2

1-2 2

3 1

1 2

1 2

TENSOR NETWORK METHODS

2 2

1-2 2

1 3

1 2

1 2

TRAPPED IONS TWO-QUBITS GATE

2 2

1-2 2

1 1

1 2

SHOR ALGORITHM

2 2

1-2 3

1 1

1 1

TELEPORTATION

2 2

1-2 2

1 1

1 1

TOPOLOGICAL ENTANGLEMENT

2 2

1-2 2

1 4

1 2

INTEGRATED PHOTONICS

3 3

3-4 II 4

1 2

This panel illustrates Integrated Photonics. It features a central chip with red laser beams. The top left has an atom icon with a '3' in a red circle. The top right has a stack of gold bars icon with a '3' in a red circle. The bottom left has a green antenna icon and a blue eye icon. The bottom right has a white circle with '1' and a red atom icon with a '2' in a red circle. A white circle with '3-4' and a yellow hexagon with 'II 4' are also present.

MAGNETO QUANTUM SENSORS

3 3

3-4 II 5

1 2

This panel illustrates Magneto Quantum Sensors. It features a central coil with green laser beams. The top left has an atom icon with a '3' in a red circle. The top right has a stack of gold bars icon with a '3' in a red circle. The bottom left has a blue eye icon. The bottom right has a white circle with '2' and a red atom icon with a '1' in a red circle, followed by a blue eye icon. A white circle with '3-4' and a yellow hexagon with 'II 5' are also present.

QUANTUM CHEMISTRY SIMULATIONS

3 3

3-4 II 5

1 2

This panel illustrates Quantum Chemistry Simulations. It features a central glass chamber with a pink substance. The top left has an atom icon with a '3' in a red circle. The top right has a stack of gold bars icon with a '3' in a red circle. The bottom left has a yellow gear icon. The bottom right has a white circle with '2' and a red atom icon with a '1' in a red circle, followed by a yellow gear icon. A white circle with '3-4' and a yellow hexagon with 'II 5' are also present.

ION-TRAP HARDWARE

3 3

3-4 II 4

1 2

This panel illustrates Ion-Trap Hardware. It features a central chip with red laser beams. The top left has an atom icon with a '3' in a red circle. The top right has a stack of gold bars icon with a '3' in a red circle. The bottom left has a purple envelope icon and a blue eye icon. The bottom right has a white circle with '1' and a red atom icon with a '2' in a red circle. A white circle with '3-4' and a yellow hexagon with 'II 4' are also present.

LONG-DISTANCE QUANTUM KEY DISTRIBUTION

3 3

3-4 II 5

1 2

This panel illustrates Long-Distance Quantum Key Distribution. It features a globe with green concentric circles. The top left has an atom icon with a '3' in a red circle. The top right has a stack of gold bars icon with a '3' in a red circle. The bottom left has a green antenna icon. The bottom right has a white circle with '2' and a stack of gold bars icon with a '1' in a red circle, followed by a green antenna icon. A white circle with '3-4' and a yellow hexagon with 'II 5' are also present.

QUANTUM ADVANTAGE EXPERIMENTS

3 3

3-4 II 5

1 2

This panel illustrates Quantum Advantage Experiments. It features a central globe with various mechanical components. The top left has an atom icon with a '3' in a red circle. The top right has a stack of gold bars icon with a '3' in a red circle. The bottom left has a purple envelope icon. The bottom right has a white circle with '2' and a red atom icon with a '1' in a red circle, followed by a purple envelope icon. A white circle with '3-4' and a yellow hexagon with 'II 5' are also present.

ERA II

QUANTUM ELECTRODYNAMICS SIMULATIONS

3 (Atom icon) 3 (Stack of coins icon)

3-4 (Circle icon) II 5 (Hexagon icon)

2 (Stack of coins icon) + (1 (Stack of coins icon) x 1 (Gear icon))

QUANTUM VENTURE CAPITAL

3 (Atom icon) 3 (Stack of coins icon)

3-4 (Circle icon) II 4 (Hexagon icon)

1 (Gear icon) 1 (Eye icon) 1 (Atom icon) 2 (Stack of coins icon with slash)

SUPERCONDUCTING HARDWARE

3 (Atom icon) 3 (Stack of coins icon)

3-4 (Circle icon) II 4 (Hexagon icon)

1 (Antenna icon) 1 (Gear icon) 1 (Atom icon) 2 (Stack of coins icon with slash)

QUANTUM ERROR CORRECTION CODES

3 (Atom icon) 3 (Stack of coins icon)

3-4 (Circle icon) II 5 (Hexagon icon)

2 (Stack of coins icon) + (1 (Stack of coins icon) x 1 (Envelope icon))

QUANTUM REPEATERS

3 (Atom icon) 3 (Stack of coins icon)

3-4 (Circle icon) II 4 (Hexagon icon)

1 (Antenna icon) 1 (Envelope icon) 1 (Atom icon) 2 (Stack of coins icon with slash)

SATELLITE FOR QUANTUM COMMUNICATIONS

3 (Atom icon) 3 (Stack of coins icon)

3-4 (Circle icon) II 5 (Hexagon icon)

1 (Antenna icon) 2 (Atom icon) + (1 (Atom icon) x 1 (Antenna icon))

ERA II and III

BRAIN QUANTUM SENSORS

3 3

3-4 II 5

$\text{Eye} + (\text{Stack} \times \text{Eye})$

UNIVERSAL QUANTUM COMPUTATION

4 4

5-6 III 7

$\text{Envelope} + (\text{Stack} \times \text{Atom})$

QUANTUM-BASED DIAGNOSTIC

4 4

5-6 III 7

$\text{Eye} + (\text{Atom} \times \text{Eye})$

ATOM-BASED QUANTUM HARDWARE

3 3

3-4 II 4

$\text{Gear} + \text{Envelope} + (\text{Stack} \times \text{Stack})$

QUANTUM-BASED RESEARCH & DEVELOPMENT

4 4

5-6 III 7

$\text{Gear} + (\text{Stack} \times \text{Stack})$

QUANTUM SECURE COMMUNICATIONS

4 4

5-6 III 7

$\text{Antenna} + (\text{Stack} \times \text{Antenna})$

ERA III

QUANTUM BLOCKCHAIN

4 4

5-6 6

III 6

3 3

QUANTUM MACHINE LEARNING

4 4

5-6 7

III 7

3 + (1 x 3)

QUANTUM SCANNERS

4 4

5-6 7

III 7

1 3

QUANTUM ENGINEERED DRUGS

4 4

5-6 7

III 7

3 + (1 x 3)

QUANTUM ENGINEERED MATERIALS

4 4

5-6 6

III 6

3 3

QUANTUM INTERNET

4 4

5-6 7

III 7

1 3