Quantum computing
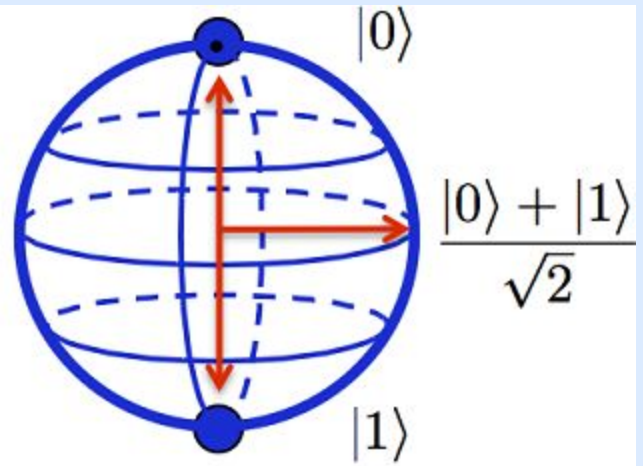
Tverdov Konstantin, group 592

Plan:

- Explanation of work
- Problems and difficulties
- Possible application

0

1

Classical Bit

$|0\rangle$
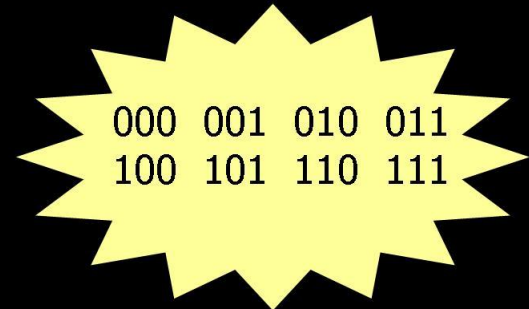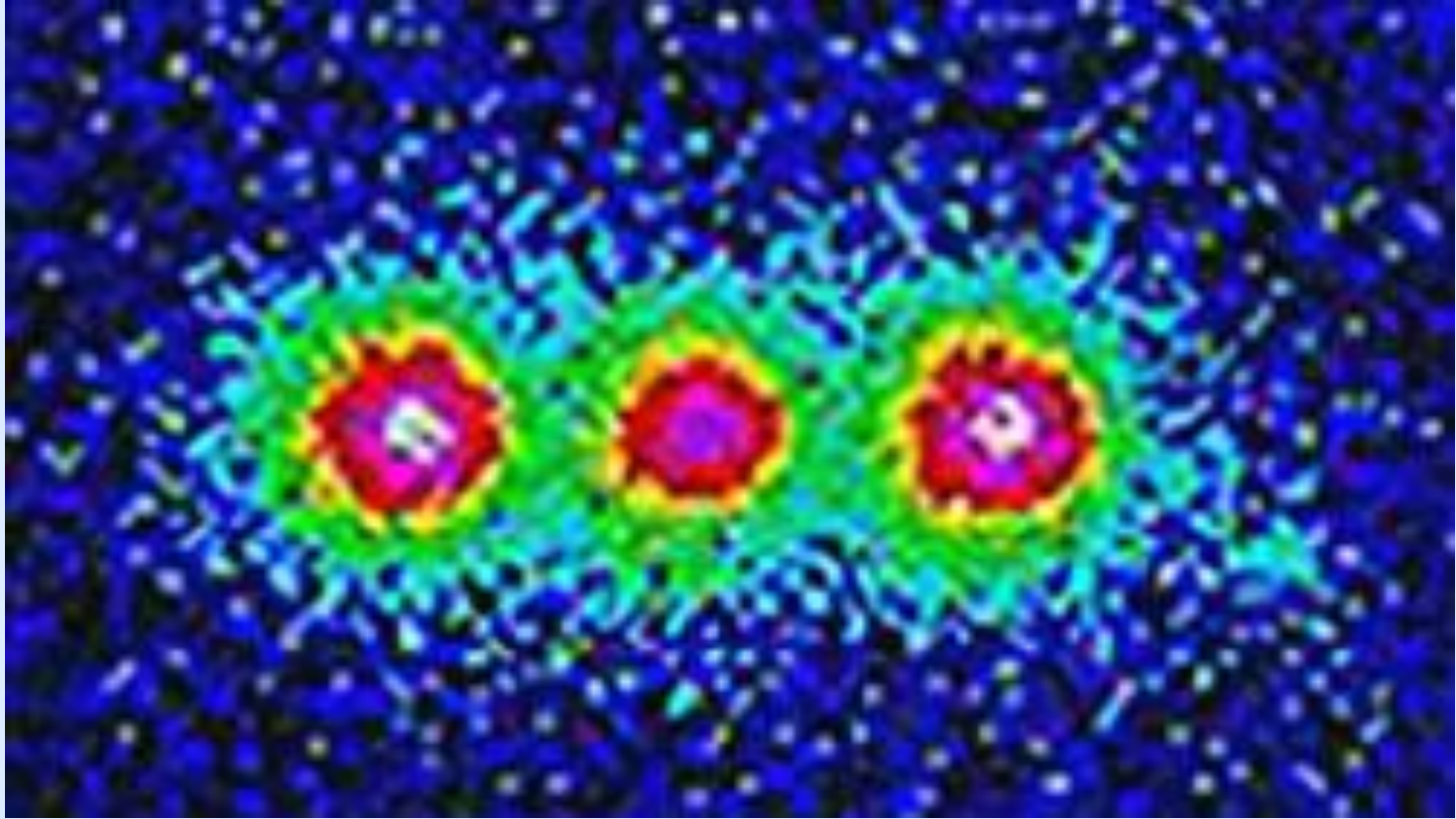
$\dfrac{|0\rangle + |1\rangle}{\sqrt{2}}$

$|1\rangle$

Qubit

Classical register

Quantum register

101 ➡ 000 001 010 011
100 101 110 111

Baby quantum computer made up of three Beryllium atoms which are used to store three qubits

Difficulties to overcome:

- Small area to apply
- Correctness of the result
- Two ways to develop
- Encryption

What is the future of quantum computing?

- Physics simulation
- Health
- Finance
- Computing

Thank you!

Questions?..