Quantum Cryptography

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Introduction

Content of the first slide.

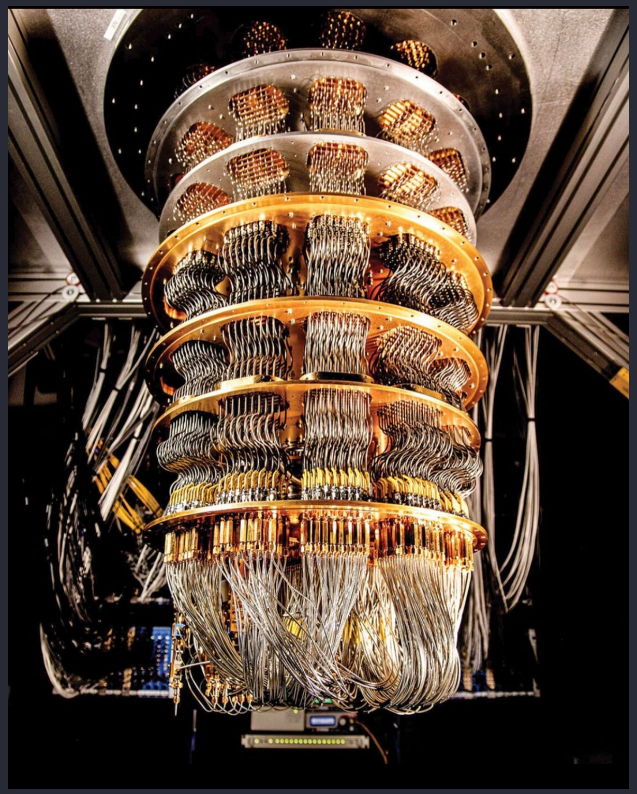

Figure: This is a quantum computer!

There Is No Largest Prime Number

The proof uses *reductio ad absurdum*.

Theorem

There is no largest prime number.

Proof.

1- Suppose p were the largest prime number.

2- Let q be the product of the first p numbers.

3- Then $q + 1$ is not divisible by any of them.

1- But $q + 1$ is greater than 1, thus divisible by some prime number not in the first p numbers. □

[4-]The proof used *reductio ad absurdum*.

your mom smells