ECM-245 Grupo 3 Tema: IBM Quântico

Gustavo Villela Lucas Coelho Raphael Hungria Rodrigo Carvalho RA: 17.01736-0 RA: 15.03863-7 RA: 17.04015-9 RA: 16.03378-7

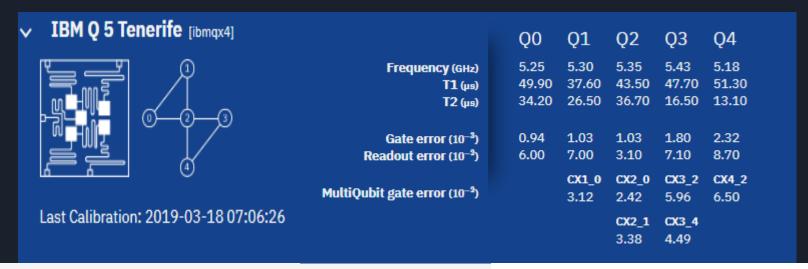


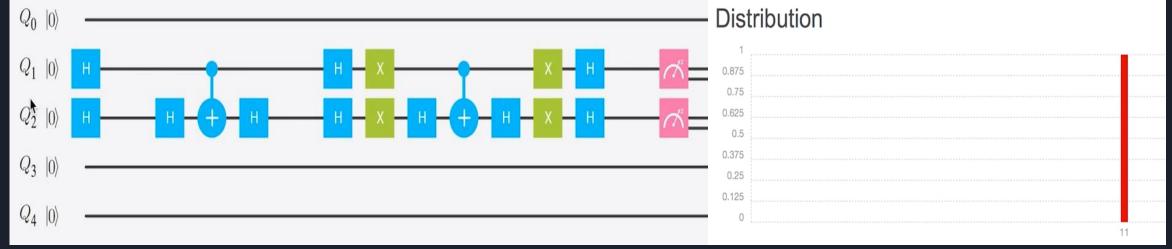
O IBM Quântico



A IBM tem como foco de produzir um computador quântico que tenha uso comercial mundial

IBM Q Experience

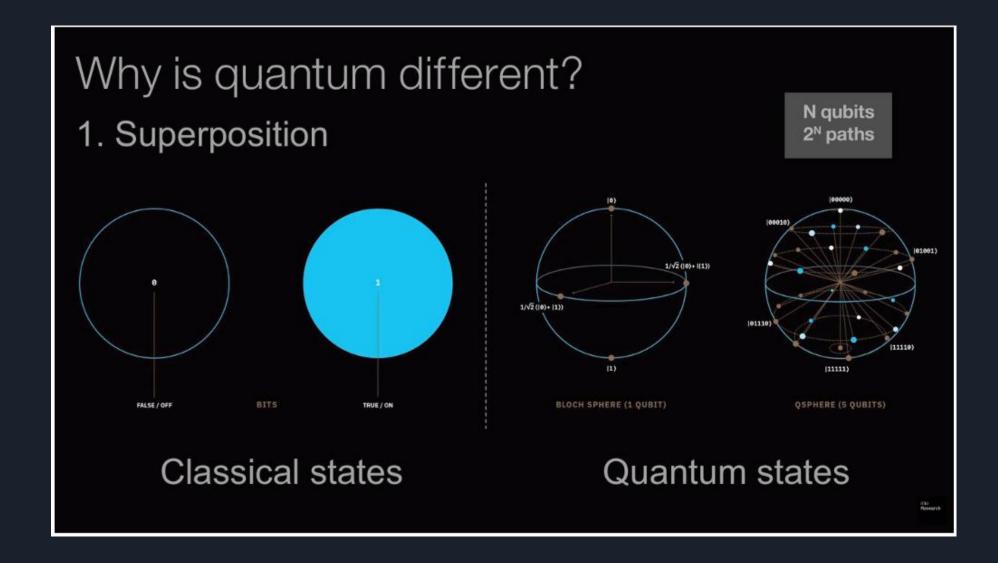




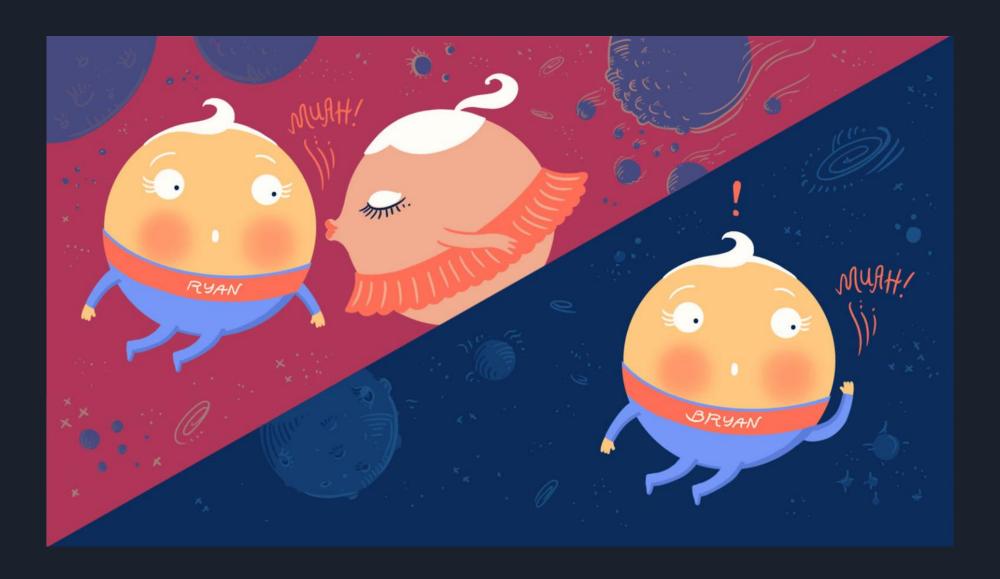
O que é computação quântica?



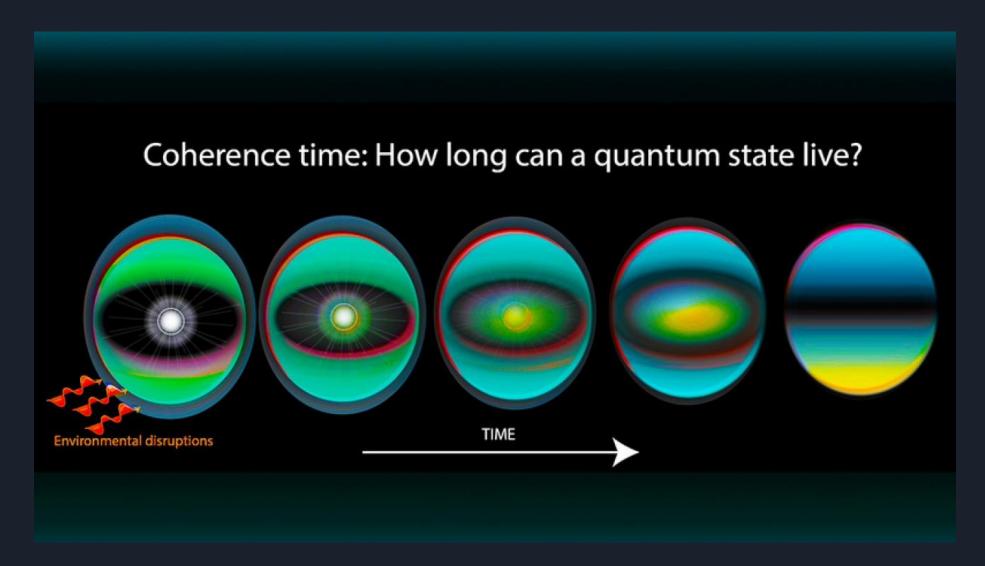
Qubits



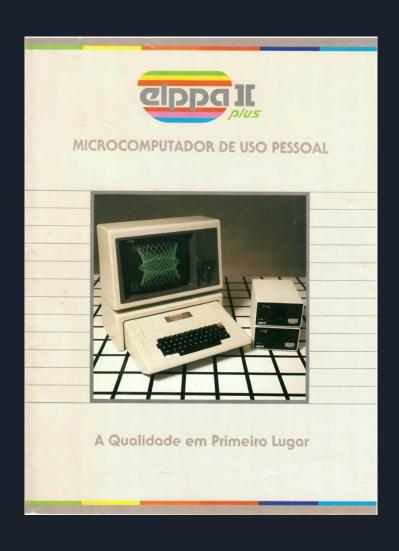
Emaranhamento Quântico



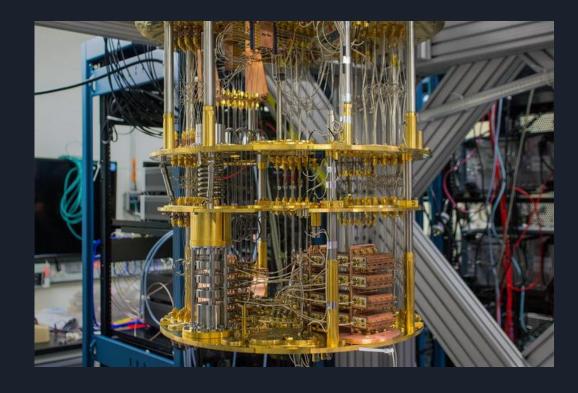
Tempo de Coerência



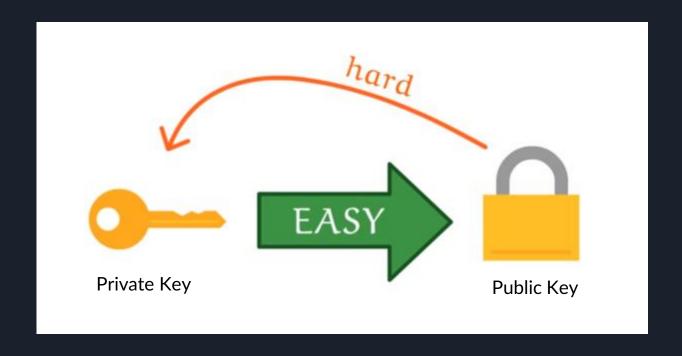
Porque investir em computadores quânticos?



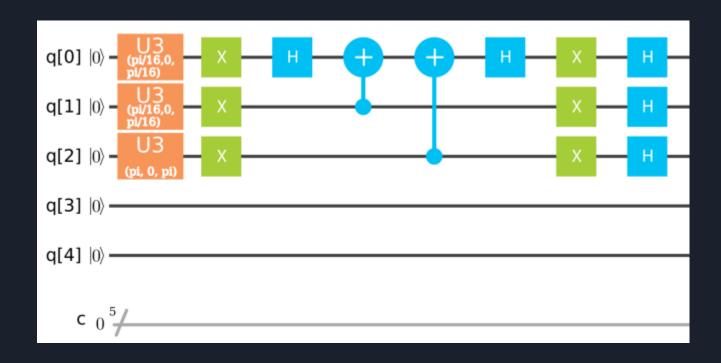




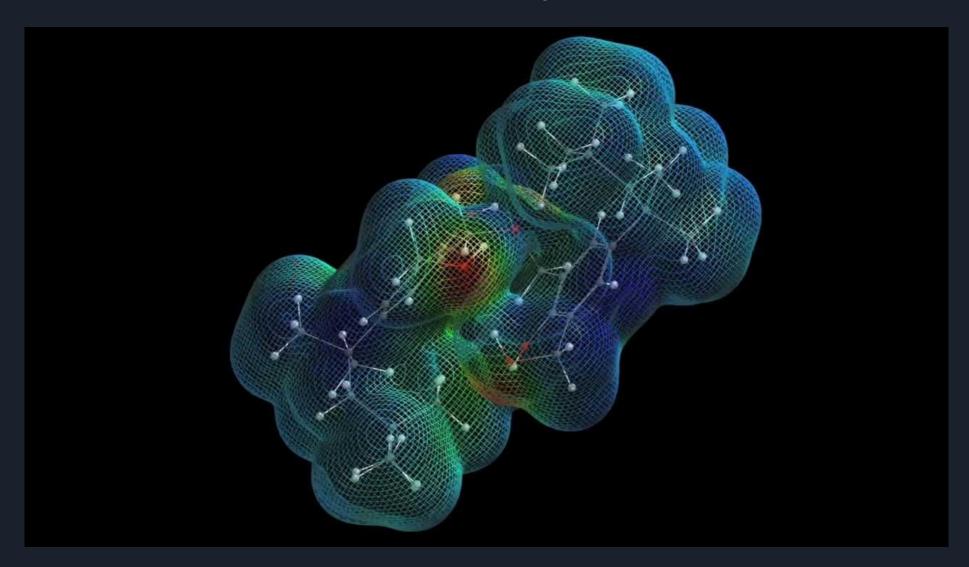
Criptografia

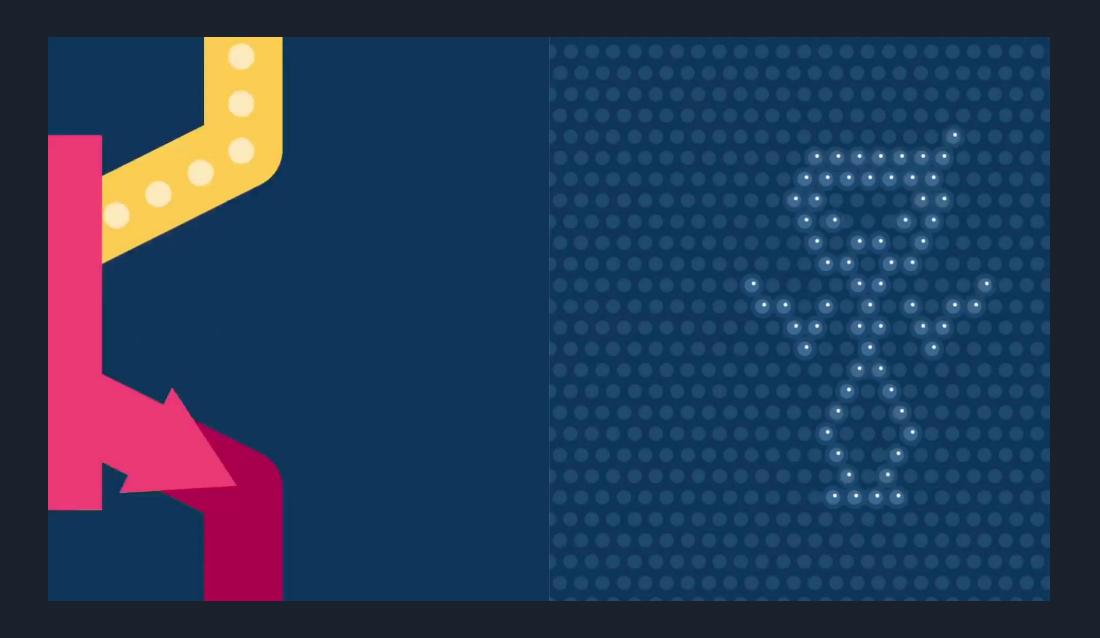


Busca em Bancos de Dados



Simulações





O uso quântico dentro de nossas casas



Fontes Bibliográficas

Seeker, We're Close to a Universal Quantum Computer, Here's Where We're At, Disponível em < https://www.youtube.com/watch?v=6yaY4Fw-ovM acesso em 05/03/2019

Veritasium, How Does a Quantum Computer Work, Disponível em https://www.youtube.com/watch?v=g_laVepNDT4> acesso em 05/03/2019

Kurzgesagt – In a Nutshell, Quantum Computers Explained – Limits of Human Technology, Disponível em https://www.youtube.com/watch?v=JhHMJCUmq28 acesso em 06/03/2019

IBM, What is quantum computing, Disponível em < https://www.research.ibm.com/ibm-q/learn/what-is-quantum-computing/ acesso em: 06/05/2019

Bonsor, K.; Strickland, J. How Quantum Computers Work, Disponível em < https://computer.howstuffworks.com/quantum-computer1.htm> acesso em: 06/05/2019