Material Complementar

Fundamentos da Computação Quântica:

- NIELSEN, Michael A.; CHUANG, Isaac L. Quantum computation and quantum information. Cambridge university press, 2010.
- NAKAHARA, Mikio; OHMI, Tetsuo. Quantum computing: from linear algebra to physical realizations. CRC press, 2008.

Entendendo átomos neutros:

- NAKAHARA, Mikio; OHMI, Tetsuo. Quantum computing: from linear algebra to physical realizations. CRC press, 2008. (cap. 14)
- Whitepaper QuEra Aquila:
 https://cdn.prod.website-files.com/643b94c382e84463a9e52264/648f5bf4d19
 795aaf36204f7 Whitepaper%20June%2023.pdf

Íons aprisionados:

- FERNANDES, Gabriel PLM et al. Íons Aprisionados como Arquitetura para Computação Quântica. Revista Brasileira de Ensino de Física, v. 45, p. e20220218, 2022.
- NAKAHARA, Mikio; OHMI, Tetsuo. Quantum computing: from linear algebra to physical realizations. CRC press, 2008. (cap. 13)
- Imagem do atomo aprisionado: https://www.ox.ac.uk/news/science-blog/image-strontium-atom-wins-national-science-photography-prize

Redes Neurais:

- Digital-analog quantum convolutional neural networks for image classification. https://arxiv.org/pdf/2405.00548
- Quantum Machine Learning: arXiv:1611.09347v2
- An introduction to quantum machine learning: arXiv:1409.3097v1
- RONCALLO, Simone et al. Quantum optical classifier with superexponential speedup. arXiv preprint arXiv:2404.15266, 2024.

Problemas de otimização:

• LUCAS, Andrew. Ising formulations of many NP problems. Frontiers in physics, v. 2, p. 5, 2014.

Telecomunicações:

V. Krutyanskiy, M. Canteri, M. Meraner, J. Bate, V. Krcmarsky, J. Schupp, N. Sangouard, B. P. Lanyon. Telecom-Wavelength Quantum Repeater Node Based on a Trapped-Ion Processor. Physical Review Letters. Vol: 130, 213601. DOI: 10.1103/PhysRevLett.130.213601

• STOLK, Arian J. et al. Metropolitan-scale heralded entanglement of solid-state qubits. arXiv preprint arXiv:2404.03723, 2024.

Simulações:

- IQBAL, Mohsin et al. Non-Abelian topological order and anyons on a trapped-ion processor. Nature, v. 626, n. 7999, p. 505-511, 2024.
- Whitepaper D-Wave:
 https://www.dwavesys.com/media/knedq0pb/dwave_life-sci_overview_v2.pdf

Whitepaper avanços da microsoft:

https://smt.microsoft.com/White Paper Accelerating scientific discovery with HPC Al and Quantum.pdf

Figurinhas dos sldies: https://www.flaticon.com/br/autores/tomomi-the-cat/lineal-color