Quantum Computation Roadmap

The overall purpose of this roadmap is to help facilitate the progress of quantum computation research towards the quantum computer science era. It is a living document that will be updated at least annually.

Please e-mail comments on the quantum computation roadmap to Richard Hughes with a copy to Malcolm Boshier.



Quantum Computing Roadmap Overview
(PDF)

Section 6.1: Nuclear Magnetic Resonance Approaches to Quantum Information Processing and Quantum Computing
(PDF)

Section 6.2: Ion Trap Approaches to Quantum Information Processing and Quantum Computing
(PDF)

Section 6.3: Neutral Atom Approaches to Quantum Information Processing and Quantum Computing
(PDF)

Section 6:4 Cavity QED Approaches to Quantum Information Processing and Quantum Computing
(PDF)

Section 6.5: Optical Approaches to Quantum Information Processing and Quantum Computing
(PDF)

Section 6.6: Solid State Approaches to Quantum Information Processing and Quantum Computing
(PDF)

Section 6.7: Superconducting Approaches to Quantum Information Processing and Quantum Computing
(PDF)

Section 6.8: "Unique" Qubit Approaches to Quantum Information Processing and Quantum Computing
(PDF)

Section 6.9: The Theory Component of the Quantum Information Processing and Quantum Computing Roadmap
(PDF)

Appendix

Whole Roadmap (6 MB)
(PDF)



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