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Quantum Computation And Quantum Information

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An Expanded Definition Of Computation That Includes Alternative (especially Ana-log) Models As Well As The TM. Finally We Present An Alternative Model, Of Con-tinuous Computation, More Suited To Natural Computation. We Conclude With Remarks On The Expressivity Of Formal Mathematics. Jan 20th, 2024

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Quantum Information And Computation For Dummies

"A Quantum Computer Make Use Of Quantum-mechanical Phenomena, Such As Superposition And Entanglement, To Perform Operations On Data." - Wikipedia Definition Fundamentals Quantum Computers Can Be Programmed To Carry Out The Same Operations As Classical Computers Jan 1th, 2024

Introduction To Quantum Information And Computation

May 02, 2020 · Introduction To Quantum Information And Computation Steven M. Girvin © 2019, 2020 [Compiled: May 2, 2020] May 4th, 2024

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Chapter 1 Introduction To Quantum Computation

CHAPTER 1. INTRODUCTION TO QUANTUM COMPUTATION 9 XOR $A \oplus B$ 00 0 01 1 10 1 11 0 (1.34) NAND $A \uparrow B$ 00 1 01 1 10 1 11 0 (1.35) NOR $A \downarrow B$ 00 1 01 0 10 0 11 0 (1.36) XNOR $A \oplus B$ 00 1 01 0 10 0 11 1 (1.37) It Can Be Shown By Direct Construction That NAND And NOR Gates Are Universal (i.e. Arbitrary Gate Can Be Constructed Out Of Only NAND Gates ... Mar 25th, 2024

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In Quantum Computation, The State Of The Computer Is Described By A State Vector $|\psi\rangle$, Which Is A Complex Linear Superposition Of All Binary States Of The Bits $X \in \{0,1\}$: Historically, The Idea That The Quantum Mechanics Of Isolated Systems Should Be Studied As A New Formal System For Computation Arose From The Recognition 20 Years Ago That ... Mar 28th, 2024

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Geometric Quantum Computation

Thus Quantum Geometrical Phases Can Form The Basis Of Any Quantum Computation. Moreover, As The Induced Conditional Phase Depends Only On The Geometry Of The Paths Executed By The Spins It Is Resilient To Certain Types Of Errors And Offers The Potential Of A Naturally Fault-tolerant Way Of Performing Apr 23th, 2024

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A Universal Two-Bit Gate For Quantum Computation

Security May Only Be Obtainable Via Quantum Cryptography (Bennett & Brassard 1984; Ekert 1991). Clearly, The Experimental Realization Of Quantum Computation Is A Most Important Issue. Computational Networks Built Out Of Quantum Mechanical Gates (Deutsch 1989) Provide A Natural Framework For Constr Jan 29th, 2024

Appendix A Linear Algebra For Quantum Computation

Linear Algebra For Quantum Computation The Purpose Of This Appendix Is To Compile The Definitions, Notations, And Facts Of Linear Algebra That Are Important For This Book. This Appendix Also Serves As A Quick Reference For The Main Operations In Vector Spaces, For Instance, The Inner And Mar 6th, 2024

Topological Quantum Computation Zhenghan Wang

Fusion Rules And Fusion Categories 41 4.2. Graphical Calculus Of RFCs 44 4.3. Unitary Fusion Categories 48 4.4. Link And 3-manifold Invariants 49 ... This Book Expands The Plan Of The Author's 2008 NSF-CBMS Lectures On Knots And Topological Quantum Computing, And Is Intended As A Primer F May 9th, 2024

Quantum Computation Of Fluid Dynamics

Quantum Particle System Is Termed A Quantum Lattice Gas And The Associated Quantum Computer Network Is Called A Lattice-gas Quantum Computer. Over A Decade Ago, Classical Lattice Gases Were Found That Behave Like A Viscous Navier-Stokes fluid At The Macroscopic Scale [1, 2]. In This Paper We Show That A Quantum Lattice Gas Does Too. Feb 12th, 2024

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