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Of Michigan, Ann Arbor, MI 48109-1040, USA E-mail:
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Should Be Careful Not To Compare Apples With
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QUANTUM COMPUTATION 9 XOR AbaXORb 00 0 01 1

10 1 11 0 (1.34) NAND $A \oplus B$ 00 1 01 1 10 1 11 0
 (1.35) NOR $A \oplus B$ 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 ... Apr 13th, 2024
 Elementary Gates For Quantum Computation
 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 $\sum c_i |i\rangle$:
 Historically, The Idea That The Quantum Mechanics Of
 Isolated Systems Should Be Studied As A New Formal
 System For Computation Arose From The Recognition
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 Manipulated For Performing Computations Using A
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 Main Ideas Of Quantum Computing And Then Illustrate
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 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 May 12th,
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Computational Networks Built Out Of Quantum Mechanical Gates (Deutsch 1989) Provide A Natural Framework For Constr Feb 4th, 2024Appendix A Linear Algebra For Quantum ComputationLinear 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 Operationsin Vector Spaces, For Instance, Theinner And Jan 12th, 2024Topological Quantum Computation Zhenghan WangFusion 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 5th, 2024.

Quantum Computation Of Fluid DynamicsQuantum

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 Vis-cous Navier-Stokes fluid At The Macroscopic Scale [1, 2]. In This Paper We Show That A Quantum Lattice Gas Does Too. May 19th, 2024

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