

quantum control of multi pdf

Quantum control for high-fidelity multi-qubit gates 11 Figure 3. Piecewise-constant pulse representation of the frequencies ω_k for the superconducting atoms versus the evolution time t . The size of time step is $\Delta t = 1$ ns and $g = 30$ MHz. The generated pulses enable the design of a high-fidelity ($F(|\psi\rangle(t)) \geq 99.99\%$) CCCZ gate that operates in 70 ns.

Quantum control for high-fidelity multi-qubit gates - arxiv.org

"Coherent Control of Four-Wave Mixing" discusses the frequency, temporal and spatial domain interplays of four-wave mixing (FWM) processes induced by atomic coherence in multi-level atomic systems.

Quantum Control Of Multi-Wave Mixing PDF - bookslibland.net

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Multi-wave mixing gives rise to new frequency components due to the interaction of light signals with a suitable nonlinear medium. In this book a systematic framework for the control of these processes is used to lead readers through a plethora of related effects and techniques.

Quantum Control of Multi-Wave Mixing - Zhang - Wiley

Quantum technology takes into account and/or exploits quantum behavior. Many technical issues (e.g. decoherence). Design of complex systems require some form of control. There is emerging a need a control theory that can cope with quantum models and potentially exploit quantum resources.

An Introduction to Quantum Control

A quantum control landscape is defined by the value of a physical observable as a functional of the time-dependent control field $E(t)$ for a given quantum-mechanical system.

Multiple Solutions in the Tracking Control of Quantum

Quantum control of a model qubit based on a multi-layered quantum dot Alejandro Ferron, 1,a) Pablo Serra, 2,b) and Omar Osenda 2,c) 1 Instituto de Modelado e Innovacion Tecnologica (CONICET-UNNE), Avenida Libertad 5400,

Quantum control of a model qubit based on a multi-layered

Multi-polarization quantum control of rotational motion Control of rotational motion Physical picture Coupling structure $J=2$ $J=1$ $J=0$ 0 0 0 $1-1$ $2-1$ Figure: The three matrices D_k , $k = 1;0;1$ coupling the eigenstates are each represented by a different color (green, black, red) for $J_{max} = 2$. On the J -th line from

Multi-polarization quantum control of rotational motion

(Color on-line) a) The electronic density for a quantum state well localized in the innermost potential well of a layered quantum dot.

(PDF) Quantum control of a model qubit based on a multi

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QUANTUM STATE CONTROL OF TRAPPED IONS FOR COMPUTATION AND MULTI-ENSEMBLE ATOMIC CLOCKS Approved by: Dr. Kenneth Brown, Advisor School of Chemistry & Biochem-

QUANTUM STATE CONTROL OF TRAPPED IONS FOR COMPUTATION AND

quantum evolution resulting from the interaction of the slow probe light with the new fields generated in the nondegenerate multi-wave mixing scheme. We have found a critical condition for the stopping and quantum

Quantum Control and Manipulation of Multi-Color Light Fields

Quantum control and enhancement of multi-color emissions in upconversion nanoparticles Ye Hao, Aihua Li, Jun Yang, Wentao Gao, and Zhijun Sun) Department of Physics, OSED Center, Xiamen University, Xiamen 361005, China

Quantum control and enhancement of multi-color emissions

Manipulating multi-spin coherent states also increases the complexity of quantum operations required in a quantum processor. Here I present schemes to mitigate this problem, both in the state initialization, with particular attention to bulk ensemble quantum information processing, and in the coherent control and gate implementations.

Quantum Information Processing in Multi-Spin Systems

Abstract Experimental multi-objective Quantum Control is an emerging topic within the broad physics and chemistry applications domain of controlling quantum phenomena.

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