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🌐 Language skills

Հայերեն Русский English

📖 Publications

Article

Stationary States of an Electron in a Prolate Spheroidal Quantum Dot [Стационарные состояния электрона в вытянутой сфероидальной квантовой точке]

M. V. Hayrapetyan, A. Zh. Muradyan

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2024
144 - 148

Article

Jaynes-Cummings Model in Counter Propagating Waves Basis: Large Numbers of Excitations

A.Zh. Muradyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2023 134-139

Article

Spin-dependent multichannel scattering of electron in a quantum wire

A.Zh. Muradyan, D.A. Badalyan

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Article

Far resonance Kapitza-Dirac diffraction: from Raman-Nath to Bragg and multiple beam atomic interferometer

Atom Zh. Muradyan

Optical Memory and Neural Network 2023 S296-S304

Article

Absorptive Atom Interferometer

A. Zh. Muradyan

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Article

Quantum Tunneling Time of a Moderately Singular Potential: Regularization Method

A.Zh. Muradyan

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Article

Spin-dependent multichannel scattering of electron in a quantum wire with a point defect

D.A. Badalyan, A. Zh. Muradyan

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On Quantum Tunneling of a Singular Potential

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Article

Spontaneous Emission of a Semiconductor Quantum Dot without the Dipole Approximation

G. A. Muradyan, L. R. Arzumanyan, A. Zh. Muradyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2020 317-322

Manual

Լաբորատոր պարապմունքների ուղեցույց: Մոլեկուլային ֆիզիկա

Ա. Ժ. Մուրադյան, Դ. Հ. Բադալյան, Ռ. Յ. Գաբրիելյան, Մ. Վ. Հայրապետյան, Լ. Ա. Հովհաննիսյան

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Article

Approximate Formula for Superposition State of two Level Atom and Large Number of Counterpropagating Photons

A. Zh. Muradyan, G. A. Muradyan, L. R. Arzumanyan

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Article

Лазерные бегущие волны для дифракции Капицы-Дирака в атомном интерферометре

А.Ж. Мурадян, Г.А. Мурадян

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Переходы между квантованными стоячими волнами при взаимодействии с атомом в режиме Рамана-Ната

А.Ж. Мурадян, Г.А. Мурадян, Л.Р. АРЗУМАНЯН

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Article

Квазиклассическое приближение для резонансного рассеяния Капицы-Дирака

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Article

Tunneling dynamics of a two-atom system

A Zh Muradyan, G Muradyan, H Hakobyan

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L. A. Hovhannisyan, G. A. Muradyan, A. Zh. Muradyan

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A. Zh. Muradyan, G. A. Muradyan, H. R. Hakobyan

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Article

Raman - Nath approximation for diffraction of atoms in the laser field taking into account spontaneous emission of atoms for ground and high energy level

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Quantum superposition principle and generation of short optical pulses

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Article

Improvement of the Raman-Nath approximation for the resonant Kapitza-Dirac scattering

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Train of high-power femtosecond pulses: Probe wave in a gas of prepared atoms

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Collapse and revival in atom internal dynamics due to quantum translational motion

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Article

Theory of a compound large-angle atom beam splitter. II. Initial state deflection

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Theory of a compound large-angle atom beam splitter

A. Zh. Muradyan, A. A. Poghosyan, P. R. Berman

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Article

Stationary states of the Jaynes-Cummings model with atomic centre-of-mass quantum motion: analytical approximation to transfer counterpropagating waves into a standing wave in a large photon number limit

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Optical transition and momentum transfer in atomic wave packets

A. Zh. Muradyan, V. A. Poghosyan

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Momentum transfer for an optical transition in a prepared two-level atom

A. Zh. Muradyan, H. L. Haroutyunyan

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Перетяжка каустики при резонансной самофокусировке с малым насыщением нелинейности

А. Ж. Мурадян

Квантовая Электроника (Quantum Electronics) 1986 1935-1938

Conference

Atom diffraction by a standing wave: from Raman-Nath to Bragg and multi-beam atom interferometry

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