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📖 Публикации

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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

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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

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Spin-dependent multichannel scattering of electron in a quantum wire

A.Zh. Muradyan, D.A. Badalyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2023 31-37

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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

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Absorptive Atom Interferometer

A. Zh. Muradyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2023 355 - 361

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Quantum Tunneling Time of a Moderately Singular Potential: Regularization Method

A.Zh. Muradyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 230-237

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

D.A. Badalyan, A. Zh. Muradyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 41-48

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On Quantum Tunneling of a Singular Potential

A. Zh. Muradyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2021 91-97

Статья

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

Образовательный Руководство

Լաբորատոր պարապմունքների ուղեցույց: Սոլեկուլային ֆիզիկա

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

2019 60

Статья

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

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

Journal of Contemporary Physics (Armenian Academy of Sciences) 2019 11 - 16

Статья

Лазерные бегущие волны для дифракции Капицы-Дирака в атомном интерферометре

А.Ж. Мурадян, Г.А. Мурадян

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2018 135-142

Статья

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

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

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2018 251-256

Статья

Квазиклассическое приближение для резонансного рассеяния Капицы-Дирака

А.Ж. Мурадян, Г.А. Мурадян

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2017 271-278

Статья

Tunneling dynamics of a two-atom system

A Zh Muradyan, G Muradyan, H Hakobyan

Journal of Physics: Conference Series 2016 012013 (5)

<http://iopscience.iop.org/journal/1742-6596>

Статья

**Generalized Bloch states of a two-level atom in the field of counterpropagating waves:
application to the Kapitza-Dirac diffraction problem**

Atom Zh Muradyan, Gevorg Muradyan

Physica Scripta 2015 115401 (9)

<http://iopscience.iop.org/journal/1402-4896>

Статья

Approximate solution of the Schrödinger equation for an atom in the field of a standing wave

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

Journal of Contemporary Physics (Armenian Academy of Sciences) 2014 6-11

Статья

Total transparency in quantum tunneling of counterpropagating waves

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

Journal of Contemporary Physics (Armenian Academy of Sciences) 2014 98 -102

Статья

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

L Hovhannisyan, A Zh Muradyan

Journal of Physics: Conference Series 2012 012011

Статья

Quantum superposition principle and generation of short optical pulses

Atom Zh Muradyan, Gevorg Muradyan

Journal of Physics: Conference Series 2012 012006

Статья

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

L. A. Hovhannisyan, A. Zh. Muradyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2010 12-16

Статья

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

Atom Zh. Muradyan, Gevorg Muradyan

Physical Review A 2009 035801

Статья

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

A Zh Muradyan, G A Muradyan

Journal of Physics B: Atomic, Molecular and Optical Physics 2004 4471 - 4482

Статья

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

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

Physical Review A 2004 065601

Статья

Theory of a compound large-angle atom beam splitter

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

Статья

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

A Zh Muradyan, G A Muradyan

Journal of Physics B: Atomic, Molecular and Optical Physics 2002 3995 - 4013

Статья

Optical transition and momentum transfer in atomic wave packets

A. Zh. Muradyan, V. A. Poghosyan

Physical Review A 2001 013416

Статья

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

A. Zh. Muradyan, H. L. Haroutyunyan

Physical Review A 2000 013401

Статья

Перетяжка каустики при резонансной самофокусировке с малым насыщением нелинейности

А. Ж. Мурадян

Квантовая Электроника (Quantum Electronics) 1986 1935-1938

Конференция

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

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