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## Институт физики

Ակադեմիկոս Վիկտոր Համբարձումյանի անվան ընդհանուր ֆիզիկայի և  
աստղաֆիզիկայի ամբիոն  
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## 🌐 Знание языков

Հայերեն Русский English

## 📖 Публикации

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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

Статья

### 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

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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

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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

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**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

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Образовательный Руководство

**Լաբորատոր պարապմունքների ուղեցույց: Մոլեկուլային ֆիզիկա**

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**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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**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

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

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**Tunneling dynamics of a two-atom system**

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

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

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*Конференция*

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

A. Muradyan

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