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Статья

ГЕНЕРАЦИЯ ВЫСШИХ ГАРМОНИК С УЧЕТОМ МНОГОЧАСТИЧНОГО КУЛОНОВСКОГО ВЗАИМОДЕЙСТВИЯ В ГРАФЕНОВОЙ КВАНТОВОЙ ТОЧКЕ

Х. В. Седракян, А. Г. Казарян, Б. Р. Авчян, Г. А. Мусаелян, Т. М. Маркосян

Журнал экспериментальной и теоретической физики (Journal of Experimental and Theoretical Physics)
2023 56–65

Статья

High Harmonic Generation with Many-Particle Coulomb Interaction in Graphene Quantum Dot

Kh. V. Sedrakian, A. G. Ghazaryan, B. R. Avchyan, G. A. Musayelyan, T. M. Markosyan

Журнал экспериментальной и теоретической физики (Journal of Experimental and Theoretical Physics)
2023 47–54

Статья

ГАРМОНИКИ ВЫСШЕГО ПОРЯДКА В ГЕКСАГОНАЛЬНЫХ ГРАФЕНОВЫХ КВАНТОВЫХ ТОЧКАХ

Х.В. Седракян, А. Г. Казарян, Б. Р. Авчян, К.С. Погосян, Т.М. Маркосян

Журнал экспериментальной и теоретической физики (Journal of Experimental and Theoretical Physics)
2023 457–466

Статья

Higher-Order Harmonics in Hexagonal Graphene Quantum Dots

Kh. V. Sedrakian, A. G. Ghazaryan, B. R. Avchyan, Q. S. Poghosyan, T. M. Markosyan

Journal of Experimental and Theoretical Physics 2023 395–403

Статья

Генерация высоких гармоник в треугольных квантовых графеновых точках

Б. Р. Авчян, А. Г. Казарян, К. А. Саргсян, Х. В. Седракян

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2022 155–165

Статья

High Harmonic Generation in Triangular Graphene Quantum Dots

B. R. Avchyan, A. G. Ghazaryan, K. A. Sargsyan, Kh. V. Sedrakyan

Journal of Experimental and Theoretical Physics 2022 125–134

Статья

High harmonic generation with many-body Coulomb interaction in rectangular graphene quantum dots of armchair edge

Babken R. Avchyan, Armenuhi G. Ghazaryan, Samvel S. Israelyan, Khachik V. Sedrakian

Статья

High-order harmonic generation in three-dimensional Weyl semimetals with broken time-reversal symmetry

H. K. Avetissian, V. N. Avetisyan, B. R. Avchyan, G. F. Mkrtchian

Physical Review A 2022 033107/1-8

Статья

On Laser-Induced High-Order Wave Mixing and Harmonic Generation in a Graphene Quantum Dot

B. R. Avchyan, A. G. Ghazaryan, K. A. Sargsyan, Kh. V. Sedrakian

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Статья

О лазерно-индуцированной генерации высших гармоник и смещении волн высокого порядка в графеновой квантовой точке

Авчян Б. Р., Казарян А. Г., Саргсян К.А., Седракиян Х. В.

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Статья

Free-electron nanolaser based on graphene plasmons

H. K. Avetissian, B. R. Avchyan, H. H. Matevosyan, G.F. Mkrtchian

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Статья

ОТКЛИК ВЫСШИХ ГАРМОНИК ИНТЕНСИВНОГО КОГЕРЕНТНОГО ЭЛЕКТРОМАГНИТНОГО ПОЛЯ НА ИЗМЕНЕНИЕ ТОПОЛОГИИ ПОВЕРХНОСТИ ФЕРМИ В ГРАФЕНОПОДОБНЫХ НАНОСИСТЕМАХ

Авчян Б. Р., Казарян А. Г., Саргсян К. А., Седракиян Х. В.

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Статья

Fermi Surface Topology Signature on the High Harmonics Generation in Graphene-Like Nanostructure

B. R. Avchyan, A. G. Ghazaryan, K. A. Sargsyan, Kh. V. Sedrakian

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On the extreme nonlinear optics of graphene nanoribbons in the strong coherent radiation fields

Hamlet K. Avetissian, Babken R. Avchyan, Garnik F. Mkrtchian, Karine A. Sargsyan

Journal of Nanophotonics 2020 026018(1-9)

Статья

Wave mixing and high harmonic generation at two-color multiphoton excitation in two-dimensional hexagonal nanostructures

H. K. Avetissian, A. K. Avetissian, B. R. Avchyan, G. F. Mkrtchian

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Microscopic nonlinear quantum theory of absorption of strong electromagnetic radiation in doped graphene

Ara Karapet Avetissian, Armenuhi Gevorg Ghazaryan, Khachik Vazgen Sedrakian,

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Multiphoton excitation and high-harmonics generation in topological insulator

H. K. Avetissian, A. K. Avetissian, B. R. Avchyan, G. F. Mkrtchian

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H. K. Avetissian, A. K. Avetissian, B. R. Avchyan, G. F. Mkrtchian

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Induced nonlinear cross sections of conductive electrons scattering on the charged impurities in doped graphene

Avetissian Ara K., Ghazaryan Armenuhi G., Sedrakian Khachik V., Avchyan Babken R.

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Collective two-boson decay of excitons in a Bose-Einstein condensate and generation of coherent photon-phonon radiation

H. K. Avetissian, A. K. Avetissian, G. F. Mkrtchian, B. R. Avchyan

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Enhanced high-order-harmonic generation and wave mixing via two-color multiphoton excitation of atoms and molecules

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Multiphoton Excitations and Harmonics Generation in Quantum Electrodynamic Vacuum

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Конференция

Radiation Induced Nonlinear Cross Sections of Conductive Electrons Scattering on Charged Impurities in Doped Graphene

A.K. Avetissian, B.R. Avchyan, A.G. Ghazaryan, Kh.V. Sedrakian

Конференция

Nonlinear Absorption Coefficient of Doped Graphene at Conductive Electrons Scattering on Charged Impurities

A.G. Ghazaryan, B.R. Avchyan, H.H. Matevosyan, Kh.V. Sedrakian

Конференция

Impact of Electron-ion Coulomb Interaction in Above Threshold Ionization of Atom in Strong Medium Infrared Laser Field

Avetissian A.K., Ghazaryan A.G., Sedrakian Kh.V., Avchyan B.R.

Конференция

High harmonics generation with 2D metallic carriers of topological insulators

H. K. Avetissian, A. K. Avetissian, B. R. Avchyan, G. F. Mkrtchian

Конференция

Radiation induced nonlinear cross sections of conductive electrons scattering on charged impurities in bilayer graphene

A. K. Avetissian, B. R. Avchyan, A. G. Ghazaryan, Kh. V. Sedrakian

Конференция

High-Harmonic Generation in Bilayer Graphene with an Electric Field Induced Band Gap

A. K. Avetissian, B. R. Avchyan, A. G. Ghazaryan, Kh. V. Sedrakian

Конференция

High harmonic generation in plane graphene quantum dots with different shapes and edges

B. R. Avchyan, K. A. Sargsyan, A. G. Ghazaryan, Kh. V. Sedrakian

Конференция

High harmonic generation on graphene quantum dots with collective scattering of electrons

B. Avchyan, A. Ghazaryan, S. Israelyan, Kh. Sedrakian

Конференция

Optical anisotropy of high-order harmonic generation in rectangular graphene quantum dots

B. R. Avchyan, A. G. Ghazaryan, Q. S. Poghosyan, Kh. V. Sedrakian

Конференция

High Harmonic Generation in (3+1)-dimensional Weyl Semimetals

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