

Research Institute of Physics
Laboratory for Research and Modeling of Quantum Phenomena
Researcher

 Publications

Article
Spin-Dependent Multichannel Tunneling of an Electron in a Nanotube with an Impurity in a Longitudinal Magnetic Field [Спин-зависимое многоканальное туннелирование электрона в нанотрубке с примесью в продольном магнитном поле]
A. Zh. Muradyan, D. A. Badalyan
Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2025 35-41

Article
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

Article
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

Manual
Լաբորատոր պարափունկների ուղեցույց: Մոլեկուլային ֆիզիկա
Ա. Ժ. Մուրադյան, Դ. Հ. Բադալյան, Ռ. Յ. Գաբրիելյան, Մ. Վ. Հայրապետյան, Լ. Ա. Հովհաննիսյան
2019 60

Article
Localization of an Electron Transiting Through a System of N Identical and Periodically Located Two-Dimensional δ -Potentials
D. H. Badalyan, D. M. Sedrakian
Journal of Contemporary Physics (Armenian Academy of Sciences) 2019 242-252

Article
Резонансное многоканальное рассеяние в нанотрубке с дельта-потенциалами
Д.М.Седракян, Д.А.Бадалян
Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2018 40-49
<https://link.springer.com/journal/volumesAndIssues/11958>

Article
Transitions in Lyotropic Liquid Crystals Caused by Concentration Change and γ -Radiation
D. A. Badalyan, M. A. Stepanyan, H. G. Badalyan
Journal of Contemporary Physics (Armenian Academy of Sciences) 2016 371-379.

Article

Амплитуды рассеяния микрочастицы в квантовой проволоке с трехмерными дельта-потенциалами

Д.М.Седракян, Д.А.Бадалян, А.Ю.Алексанян

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2016 452-463

<http://www.flib.sci.am/eng/Fizika/Frame.html>

Article

Multichannel Scattering Amplitudes of Microparticles in a Quantum Well with Two-Dimensional δ -Potential

D.M.Sedrakian, D.H.Badalyan, L.R.Sedrakian

Journal of Contemporary Physics (Armenian Academy of Sciences) 2015 129-136

<http://www.springer.com/physics/particle+and+nuclear+physics/journal/11958>

Article

Determination of the Energy of Electron in a Quantum Wire with a Point Defect

D.A. Badalyan, D. M. Sedrakian, L. R. Sedrakyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2014 43-49
