

## Research Institute of Physics

Laboratory for Research and Modeling of Quantum Phenomena  
Researcher

## Publications

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 պարապմունքների ուղեցույց: Մոլեկուլային ֆիզիկա

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

2019 60

Article

### Localization of an Electron Transiting Through a System of N Identical and Periodically Located Two-Dimensional $\delta$ -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

Դ.Մ.Սեդրակյան, Դ.Ա.Բադալյան

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 $\gamma$ -Radiation

D. A. Badalyan, M. A. Stepanyan, H. G. Badalyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2016 371-379.

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

Article

### Амплитуды рассеяния микрочастицы в квантовой проволоке с трехмерными дельта-потенциалами

Դ.Մ.Սեդրակյան, Դ.Ա.Բադալյան, Ա.Կ.Ալեքսանյան

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

*Article*

**Multichannel Scattering Amplitudes of Microparticles in a Quantum Well with Two-Dimensional  $\delta$ -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

---