

## Institute of Physics

Chair of General Physics and Astrophysics named after Academician Victor Hambardzumyan  
Professor

## 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, 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 $\delta$ -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**

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 $\gamma$ -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**

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

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

452-463

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

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*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>

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*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

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