

# Levon Grisha Mardoyan

✉ mardoyan@ysu.am



## Research Institute of Physics

International Center for Advanced Studies

Senior Engineer

## Language skills

Հայերեն Русский English

## Publications

*Article*

### **Stark Effect in the Generalized MIC-Kepler Problem [Эффект Штарка в обобщенной задаче МИК-Кеплера]**

L. G. Mardoyan

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2025  
142-147

*Article*

### **Stark effect in the SU(2) Yang-Coulomb problem (Эффект Штарка в SU(2)-задаче Янга-Кулона)**

L. G. Mardoyan

Теоретическая и математическая физика (Theoretical and Mathematical Physics) 2025 1997-2006

*Article*

### **БАЗИСЫ, МЕЖБАЗИСНЫЕ РАЗЛОЖЕНИЯ В ОБОБЩЕННОЙ ЗАДАЧЕ МИК-КЕПЛЕРА В НЕПРЕРЫВНОМ СПЕКТРЕ И ЗАДАЧА РАССЕЙЯНИЯ**

Л.Г.Мардоян

Теоретическая и математическая физика (Theoretical and Mathematical Physics) 2023 285-298

*Article*

### **Quantum Systems with Hidden Symmetry. Interbasis Expansions**

L.G. Mardoyan, G.S. Pogosyan, A.N. Sissakian, V.M. Ter-Antonyan

arXiv.org 2023 1-210

*Article*

### **Kepler motion on single-sheet hyperboloid**

G.S.Poghosyan, Yu.Kurochkin, V.S.Otchik, L.Mardoyan, D.R.Petrosyan

Physics of Atomic Nuclei 2017 739-746

<http://link.springer.com/journal/11450>

*Article*

### **Relationship between quantum mechanics with and without monopoles**

Levon Mardoyan, Armen Nersessian, Armen Yeranyan

Physics Letters A 2007 30-35

<http://www.journals.elsevier.com/physics-letters-a>

*Article*

**Dipole transitions and Stark effect in the charge-dyon system**

Levon Mardoyan, Armen Nersessian, Hayk Sarkisyan, Vahagn Yeghikyan

Journal of Physics A-Mathematical and Theoretical 2007 5973-5980

<http://iopscience.iop.org/journal/1751-8121>

---

*Article*

**Hyperboloid, instanton, oscillator**

Levon Mardoyan, Armen Nersessian, Stefano Bellucci

Modern Physics Letters B 2006 137-141

<http://www.worldscientific.com/worldscinet/mplb>

---

*Article*

**Кольцеобразные функции и б<sub>j</sub>-символы Вигнера**

Л.Г.Мардоян

Теоретическая и математическая физика (Theoretical and Mathematical Physics) 2006 299-310

---

*Article*

**Oscillator potential for the four-dimensional Hall effect**

Levon Mardoyan, Armen Nersessian

Physical Review B 2005 233303(

---

*Article*

**The Stark effect in the charge dyon system**

Armen Nersessian, Levon Mardoyan, Mara Petrosyan

Theoretical and Mathematical Physics 2004 958-964

<http://link.springer.com/journal/11232>

---

*Article*

**Charge-dyon bound system in the spherical quantum well**

L. G. Mardoyan, L. S. Petrosyan, H. A. Sarkisyan

Physical Review A 2003 014103

---

*Article*

**The generalized MIC-Kepler system**

Levon Mardoyan

Journal of Mathematical Physics 2003 4981-4987

---

*Article*

**Рассеяние электронов на дионе**

Л. Г. Мардоян

Теоретическая и математическая физика (Theoretical and Mathematical Physics) 2003 246-256

---

*Article*

**Hidden symmetry, separation of variables and interbasis expansions in the two-dimensional hydrogen atom**

L G Mardoyan, G S Pogosyan, A N Sissakian, V M Ter-Antonyan

Journal of Physics A: Mathematical and Theoretical 1985 021/ 455-466

---

*Article*

**Interbasis expansions in a circular oscillator**

L.G.Mardoyan, G.S.Pogosyan, A.N.Sissakian, V.M.Ter-Antonyan

Il Nuovo Cimento 1985 324-336

---

*Article*

**Spheroidal analysis of the hydrogen atom**

L G Mardoyan, G S Pogosyan, A N Sissakian, V M Ter-Antonyan

Journal of Physics A: Mathematical and Theoretical 1983 010/ 711-728

---