

# Anahit Parouyr Djotyan

**Research Institute of Physics**  
Laboratory of Solid State Physics  
Senior researcher

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## Education

<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Physics
<b>Date</b>	1965 - 1970
<b>Degree name</b>	Qualified specialist

## Scientific Rank/degree

<b>Institution</b>	Yerevan State University
<b>Date</b>	1980
<b>Degree name</b>	Candidate
<b>Specialty</b>	Physico-mathematical sciences
<b>Scientific Supervisor</b>	Kazaryan Eduard Mushech
<b>Research Topic</b>	Complicated quasiparticle complexes in thin semiconductor films

## Language skills

Русский English Français

## Work experience

<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2009 - 2023
<b>Rank/degree</b>	Senior Researcher

<b>Institution</b>	Antwerp University
<b>Period of time</b>	2009 - 2009
<b>Rank/degree</b>	Senior Researcher

<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2004 - 2009
<b>Rank/degree</b>	Senior Researcher

<b>Institution</b>	Cyprus University
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<b>Period of time</b>	2004 - 2004
<b>Rank/degree</b>	Senior Researcher

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	1980 - 2004
<b>Rank/degree</b>	Senior Researcher

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	1970 - 1980
<b>Rank/degree</b>	Researcher

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## **Scientific interests**

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- condensed matter physics
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## **Participation in international conferences and seminars**

<b>15/09/1923 -</b>	Laser Physics-Ashtarak 23
<b>20/09/1923</b>	Institute of Phys. Research Armenia

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## **Other information**

I'm graduated from solid state physics chair of YSU

## **Publications**

### *Article*

**Optical Transitions 1S-2Px between Lowest States of a Shallow Impurity in Graphene Monolayer [Оптические переходы 1S-2Px между уровнями мелкой примеси в монослоином графене]**  
A. P. Djotyan, A. A. Avetisyan

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2024  
165-171

### *Article*

**Hydrogen-Like Impurity States in Doped Bilayer Graphene: Results for Different Trial Functions [Водороподобные примесные состояния в легированном двухслойном графене: результаты для различных пробных функций]**  
A.A. Avetisyan, K. Moulopoulos, A.P. Djotyan

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2024  
265 - 271

### *Article*

**Coherent Control of Lowest States of a Shallow Impurity in Graphene Monolayer by Phase**

**Modulated Laser Pulses [Когерентный контроль наимизших уровней мелкой примеси в монослоином графене с помощью модулированных по фазе лазерных импульсов]**  
A. P. Djotyan, G. P. Djotyan, A. A. Avetisyan

Известия НАН РА. Физика (Journal of Contemporary Physics) Armenian Academy of Sciences) 2024  
272 - 278

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*Article*

**Coulomb Interaction in Graphene Systems**  
A. A. Avetisyan, A. P. Djotyan

Physics of Particles and Nuclei 2023 997-1001

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*Article*

**Impurity states in gated graphene systems in a magnetic field**  
A. A. Avetisyan, A. P. Djotyan

International Conference on Microwave & THz Technologies, Wireless Communications and OptoElectronics (IRPhE 2022)  
2023 46-48

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*Article*

**Interaction of Electromagnetic Field with Gated Graphene Bilayer**  
A. P. Djotyan, A. A. Avetisyan, K. Moulopoulos

Armenian Journal of Physics 2019 33-39

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*Article*

**Impurity States in Gated Graphene Bilayer in a Magnetic Field**  
A.A. Avetisyan, A.P. Djotyan

Armenian Journal of Physics 2019 248-253

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*Article*

**Tunable Excitons in Bilayer Graphene with Opened Energy Gap**  
A. A. Avetisyan, A. P. Djotyan, K. Moulopoulos

Physics of Atomic Nuclei 2018 799-803

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*Article*

**Nonlinear Properties of Gated Graphene in a Strong Electromagnetic Field**  
A.P. Djotyan, A.A.Avetisyan, K.Moulopoulos

Physics of Atomic Nuclei 2017 307-314

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

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*Article*

**EXCITONIC ABSORPTION IN GAPPED GRAPHENE SYSTEMS**  
A.P.Djotyan, A.A.Avetisyan

Proceedings of the YSU A. Physical and Mathematical Sciences 2017 93-96

<http://www.ysu.am/science/en/journals>

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*Article*

**Tunable excitons in gated graphene systems**  
A.A. Avetisyan, A.A.Djotyan, K.Moulopoulos

Proceedings of SPIE-Progress in Biomedical Optics and Imaging 2017 1-11

<http://spie.org/publications/conference-proceedings>

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*Conference*

**COHERENT RESPONSE OF MULTILAYER GRAPHENE SYSTEMS TO LASER RADIATION:**

**NONLINEAR EFFECTS AND MANY ELECTRON CORRELATIONS**

Artak Avetisyan, Djotyan Anahit

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*Conference*

**Nonlinear optical properties of gated graphene systems**

Artak Avetisyan, Djotyan Anahit

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*Conference*

**Excitonic absorption in gated graphene systems**

Artak A. Avetisyan, Anahit P. Djotyan, Konstantinos Moulopoulos

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*Conference*

**Tunable excitonic absorption in gapped graphene systems**

A. Avetisyan, A. Djotyan, K. Moulopoulos

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*Conference*

**Nonlinear response and tunable excitonic absorption in gapped graphene systems**

Konstantinos Moulopoulos, Artak A. Avetisyan, Anahit P. Djotyan

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