# Anahit Parouyr Djotyan

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

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## Education

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| **Institution** | Yerevan State University |
| **Faculty** | Physics |
| **Date** | 1965 - 1970 |
| **Degree name** | Qualified specialist |

## Scientific Rank/degree

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

## Language skills

Русский English Français

## Work experience

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|---|---|
| **Institution** | Yerevan State University |
| **Period of time** | 2009 - 2023 |
| **Rank/degree** | Senior Researcher |

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| **Institution** | Antwerp University |
| **Period of time** | 2009 - 2009 |
| **Rank/degree** | Senior Researcher |

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| **Institution** | Yerevan State University |
| **Period of time** | 2004 - 2009 |
| **Rank/degree** | Senior Researcher |

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| **Institution** | Cyprus University |

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| **Period of time** | 2004 - 2004 |
| **Rank/degree** | Senior Researcher |

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| **Institution** | Yerevan State University |
| **Period of time** | 1980 - 2004 |
| **Rank/degree** | Senior Researcher |

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|---|---|
| **Institution** | Yerevan State University |
| **Period of time** | 1970 - 1980 |
| **Rank/degree** | Researcher |

## Scientific interests

- condensed matter physics

## Participation in international conferences and seminars

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

## Other information

I'm graduated from solid state physics chair of YSU

## Publications

*Article*

**Shallow donor states and interlevel transitions in gapped graphene bilayers**

A .P. Djotyan, K. Moulopoulos, A.A. Avetisyan

Semiconductor Science and Technology 2025 015012

*Article*

**Coherent Control of a Shallow Impurity Quantum States in Graphene Monolayer by Bichromatic Phase Modulated Laser Pulses: Influence of Relaxation Processes[Когерентное управление квантовыми состояниями мелкой примеси в монослое графена с помощью фазомодули**

A.A. Avetisyan, A.P. Djotyan, G.P. Djotyan, A.L.Vartanian, A.L. Asatryan

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

42-49

*Article*

**Optical Transitions 1S–2Px between Lowest States of a Shallow Impurity in Graphene Monolayer [Оптические переходы 1S–2Px между уровнями мелкой примеси в монослойном графене]**

A. P. Djotyan, A. A. Avetisyan

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

165–171

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*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

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*Article*

**Coherent Control of Lowest States of a Shallow Impurity in Graphene Monolayer by Phase Modulated Laser Pulses [Когерентный контроль наинизших уровней мелкой примеси в монослойном 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*

**The Energy Levels of a Shallow Impurity in Monolayer Graphene in a Perpendicular Magnetic Field [Энергетические уровни мелкой примеси в монослойном графене в перпендикулярном магнитном поле]**

A. A. Avetisyan, A.P. Djotyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2024 386-390

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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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