

# Tigran Andranik Zalinyan

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## Research Institute of Physics

Center of Semiconductor Devices and Nanotechnologies  
Junior Researcher

## 🎓 Education

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Radiophysics
<b>Date</b>	2015 - 2018
<b>Degree name</b>	PhD student

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Radiophysics
<b>Date</b>	2013 - 2015
<b>Degree name</b>	Masters

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Radiophysics
<b>Date</b>	2008 - 2012
<b>Degree name</b>	Bachelor

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## 🎓 Scientific Rank/degree

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<b>Institution</b>	Yerevan State University
<b>Date</b>	2020
<b>Degree name</b>	Candidate
<b>Specialty</b>	Physico-mathematical sciences
<b>Scientific Supervisor</b>	Melkonyan Slavik
<b>Research Topic</b>	Electron Lattice Mobility Noises in Polar Semiconductors

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## 🌐 Language skills

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Հայերեն Русский English

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## 📁 Work experience

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<b>Institution</b>	YSU STEM School
<b>Period of time</b>	2023 till now
<b>Rank/degree</b>	Teacher

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2022 till now
<b>Rank/degree</b>	Junior scientific researcher

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2021 till now
<b>Rank/degree</b>	Lecturer

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2015 - 2018
<b>Rank/degree</b>	Laboratory assistant

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## Scientific interests

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- Physics of semiconductors and semiconductor devices
  - Transport phenomena and mobility noises in semiconductors, semiconductor nanostructures and graphene
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## Publications

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*Article*

**Basic principles of resonance Rayleigh scattering in Graphene**

S.V. Melkonyan, T.A. Zalinyan

Carbon Letters 2023 1783-1789

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*Manual*

**Վեկտորական հանրահաշվի տարրերը**

Չալինյան Տիգրան Անդրանիկի, Վարդանյան Ռուլանդ

2022 28

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*Article*

**The Equation of Electron Diffusion in the Momentum Space in Graphene**

T.A. Zalinyan, S.V. Melkonyan

Armenian Journal of Physics 2022 112-119

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*Article*

**Electron Mobility Non-Damping Fluctuations in Semiconductors**

Slavik V. Melkonyan, Tigran A. Zalinyan, Sargis S. Melkonyan

FLUCTUATION AND NOISE LETTERS 2018 1850018(1-15)

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*Article*

**Relaxation Time of Electron - Polar Optical Phonon Field-Induced Tunnel Scattering**

T.A. Zalinyan

Armenian Journal of Physics 2018 91-100

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*Article*

**Կիսահաղորդիչներում էլեկտրոնային համակարգի հավասարակշիռ վիճակից սիմետրիկ  
շեղումների մարման օրինաչափությունները**

Տիգրան Չալինյան

ԵՊՀ ՈՒԳԸ գիտական հոդվածների ժողովածու 2017 237-245

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*Article*

**Electron-acoustic phonon field induced tunnel scattering**

T.A. Zalinyan, S.V. Melkonyan, A.L. Harutyunyan

Condensed Matter Physics 2015 23702/ 1-12

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*Article*

**Electron Mobility Noise Spectral Density and Variance in a Semiconductor**

T.A. Zalinyan, S.V. Melkonyan, A.L. Harutyunyan

Armenian Journal of Physics 2014 224-243

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*Conference*

**Electron lattice mobility fluctuations in equilibrium semiconductors**

T.A. Zalinyan, S.V. Melkonyan

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