

# Gohar Hovhannes Hovhannisyan

## Institute of Physics

Chair of Nuclear Physics and Astrophysics

Associate professor

☎ 23-52

✉ hov\_gohar@ysu.am



## 🎓 Education

<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Nuclear Physics Chair
<b>Date</b>	2008 - 2011
<b>Degree name</b>	Applicant

<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Physics
<b>Date</b>	1990 - 1995
<b>Degree name</b>	Qualified specialist

## 🎓 Scientific Rank/degree

<b>Institution</b>	Yerevan State University
<b>Date</b>	2018
<b>Degree name</b>	Associate professor
<b>Specialty</b>	Physico-mathematical sciences

<b>Institution</b>	A. Alikhanyan national scientific laboratory
<b>Date</b>	2012
<b>Degree name</b>	Candidate
<b>Specialty</b>	Physico-mathematical sciences
<b>Scientific Supervisor</b>	A. Danagulyan
<b>Research Topic</b>	12C Induced Nuclear Interactions on Enriched Tin Targets

## 🌐 Language skills

Հայերեն Русский English

## 📁 Work experience

<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2025 till now
<b>Rank/degree</b>	Associate professor, Nuclear Physics and Astrophysics Chair

**Institution** Yerevan State University  
**Period of time** 2024 - 2025  
**Rank/degree** Head of the chair, associate professor, Nuclear Physics Chair

---

**Institution** Yerevan State University  
**Period of time** 2021 till now  
**Rank/degree** Senior researcher, International Center of Advanced Studies

---

**Institution** Yerevan State University  
**Period of time** 2018 - 2024  
**Rank/degree** Associate professor, Nuclear Physics Chair

---

**Institution** Yerevan State University  
**Period of time** 2012 - 2018  
**Rank/degree** Assistant professor, Nuclear Physics Chair

---

**Institution** Yerevan State University  
**Period of time** 2011 - 2012  
**Rank/degree** Lecturer, Nuclear Physics Chair

---

**Institution** Yerevan State University  
**Period of time** 2011 - 2022  
**Rank/degree** Researcher, International Center of Advanced studies

---

**Institution** Yerevan State University  
**Period of time** 2002 - 2011  
**Rank/degree** Researcher, Nuclear Physics Chair

---

## Scientific interests

---

- Nuclear reactions
  - Nuclear Medicine
  - Model calculations
  - Isotope production
- 

## Publications

---

*Article*

**Low-pressure multi-wire proportional chamber-based fission-fragment sensitive detection system: application in nuclear forensic analysis**

A.R. Balabekyan, G.H. Hovhannisyan, S.V. Gaginyan, G.M. Ayvazyan, H.G. Zohrabyan, V.H. Kakoyan,

A.T. Margaryan

European Physical Journal: Special Topics 2025 123504

---

Article

**Proton-induced reactions on enriched  $^{120}\text{Sn}$ : comprehensive analyses via stacked-foil target technique**

G. H. Hovhannisyan, T. M. Bakhshiyani, G. Tukharyan, N. Gharibyan, G. V. Martirosyan

European Physical Journal: Special Topics 2025 8

---

Article

**Formation of medical radioisotope  $^{111}\text{In}$  in photonuclear reactions**

G.H. Hovhannisyan, T.M. Bakhshiyani

Journal of Instrumentation 2024 C07010

---

Article

**Access to diagnostic imaging and radiotherapy technologies for patients with cancer in the Baltic countries, eastern Europe, central Asia, and the Caucasus: a comprehensive analysis**

Gohar H Hovhannisyan, Tatul Saghatelian, Manjit Dosanjh, Vesna Gershan, et al.

The Lancet Oncology 2024 1487 - 1495

---

Article

**Proton induced reactions on  $^{114}\text{Sn}$  and  $^{120}\text{Sn}$  targets at energies up to 18 MeV**

G. H. Hovhannisyan, A. R. Balabekyan, G. V. Martirosyan, T. M. Bakhshiyani, R. K. Dallakyan

European Physical Journal A 2023 161

---

Article

**ЭКСПЕРИМЕНТАЛЬНАЯ УСТАНОВКА НА ОСНОВЕ LPMWPC И SSD ДЕТЕКТОРОВ ДЛЯ РЕГИСТРАЦИИ И ИДЕНТИФИКАЦИИ АЛЬФА-ЧАСТИЦ И ОСКОЛКОВ ДЕЛЕНИЯ**

А.Р. БАЛАБЕКЯН, Г.О. ОГАНЕСЯН, С.В. ГАГИНЯН, Г. М. АЙВАЗЯН, Г.Г. ЗОГРАБЯН, В.О. ХАЧАТРЯН, Г.С. ВАРТАНЯН, А. Т. МАРГАРЯН

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2023 503-508

---

Article

**Experimental Installation Based on LPMWPC and SSD Detectors for Registration and Identification of Alpha Particles and Fission Fragments**

A.R. Balabekyan, G. H. Hovhannisyan, S.V. Gaginyan, G. M. Ayvazyan, H. G. Zohrabyan, H. S. Vardanyan, V. H. Khachatryan, A. T. Margaryan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2023 321–325

---

Article

**Production of  $^{47}\text{Sc}$  in photonuclear reactions on  $\text{natTi}$  targets at the bremsstrahlung endpoint energy of 30 and 40 MeV**

G.H. Hovhannisyan, T.M. Bakhshiyani, A.R. Balabekyan, I.A. Kerobyan

Applied Radiation and Isotopes 2022 110138

---

Article

**Investigations at the LUE-75 Linear Accelerator Facility of A.I. Alikhanyan National Science Laboratory**

A.S. Hakobyan, H.H. Marukyan, I. A. Kerobyan, H. R. Gulkanyan, L. A. Poghosyan, V. S. Pogosov,

H. T. Torosyan, A. Z. Babayan, L. R. Vahradyan, A. R. Balabekyan, G. H. Hovhannisyan, R. K. Dallakyan,

K. Katovsky

Article

**Photonuclear Reactions on Medium-Mass Nuclei**

G. H. Hovhannisyanyan, T. M. Bakhshiyanyan, G. V. Martirosyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 325-330

---

Article

**Ճանր միջուկների բաժանման հազվագյուտ պրոցեսներ**

Գոհար Հովհաննիսյան, Անահիտ Բալաբեկյան, Ամուր Մարգարյան

Գիտության աշխարհում 2022 36-43

---

Article

**Photonuclear production of the medical isotope  $^{67}\text{Cu}$**

G.H. Hovhannisyanyan, T.M. Bakhshiyanyan, R.K. Dallakyan

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS  
2021 48-51

---

Article

**Methods of Production the Isotope  $^{67}\text{Cu}$**

G. H. Hovhannisyanyan, A. V. Stepanyanyan, E. R. Saryanyan, L. A. Amirakyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2020 183-190

---

Article

**The comparison of theoretical model calculations and experimental data of  $^{58}\text{Ni}$ ,  $^{60}\text{Ni}$ ,  $^{61}\text{Ni}$ ,  $^{64}\text{Ni}$ ,  $^{66}\text{Zn}$ , and  $^{63}\text{Cu}$ ,  $^{65}\text{Cu}$  photo-nuclear reactions**

G.H. Hovhannisyanyan, T.M. Bakhshiyanyan, R.K. Dallakyan, A.S. Danagulyanyan

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS  
2020 25-30

---

Article

**$^{96}\text{Tc}$  As an Alternative Gamma-Ray Emitter for Medical Diagnostics**

G. H. Hovhannisyanyan, A. S. Danagulyanyan, T. M. Bakhshiyanyan

Physics of Atomic Nuclei 2019 1-7

---

Manual

**Միջուկային ֆիզիկայի լաբորատոր աշխատանքներ**

Ռ. Մարգարյան, Գ. Հովհաննիսյան, Կ. Օհանյան, Լ. Պետրոսյան

2018 206

---

Article

**Influence of high-spin states on isomeric ratios of nuclear reaction products**

G.H. Hovhannisyanyan, A.S. Danagulyanyan, T.M. Bakhshiyanyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2017 305-310

---

Manual

**Հետազոտությունների ճառագայթային մեթոդներ**

Գոհար Հովհաննիսյան

*Article*

**Special Features of Isomeric Ratios in Nuclear Reactions Induced by Various Projectile Particles**

G. H. Hovhannisyanyan, A.S. Danagulyan, T. M. Bakhshiyanyan, G. V. Martirosyan

Physics of Atomic Nuclei 2016 326-334

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

---

*Article*

**FEATURES OF ISOMERIC RATIOS IN NUCLEAR REACTIONS WITH DIFFERENT PROJECTILES**

A.S.Danagulyan, G.H.Hovhannisyanyan, T.M.Bakhshiyanyan, G.V.Martirosyan

Physics of Atomic Nuclei 2016 326-334

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

---

*Article*

**Some Medical Radionuclides Production by C18/18 Cyclotron**

A.S. Danagulyan, G.H. Hovhannisyanyan

Armenian Journal of Physics 2016 178-182

<http://ajp.asj-oa.am/>

---

*Article*

**Analysis of Isomeric Ratios for Medium-Mass Nuclei**

G. H. Hovhannisyanyan, A. S. Danagulyan, T. M. Bakhshiyanyan, I. A. Kerobyanyan

Physics of Atomic Nuclei 2016 679-685

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

---

*Article*

**Formation of Medical Radioisotopes  $^{111}\text{In}$ ,  $^{117\text{m}}\text{Sn}$ ,  $^{124}\text{Sb}$ , and  $^{177}\text{Lu}$  in Photonuclear Reactions**

A. S. Danagulyan, G. H. Hovhannisyanyan, T. M. Bakhshiyanyan, R. H. Avagyan, A. E. Avetisyan, I.A.Kerobyanyan,

R. K. Dallakyan

Physics of Atomic Nuclei 2015 447-452

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

---

*Article*

**Փորձերի արդյունքների մշակումը համակարգչի օգնությամբ**

Գ. Հ. Հովհաննիսյան

Բնագետ 2015 55-61

<http://www.ysu.am/bnaget>

---

*Article*

**Photonuclear Reactions on  $^{112},^{118},^{124}\text{Sn}$ ,  $\text{natTe}$ , and  $\text{natHf}$  Targets**

G. H. Hovhannisyanyan, A. S. Danagulyan, T. M. Bakhshiyanyan, R. H. Avagyan, A. E. Avetisyan, I.A.Kerobyanyan,

R. K. Dallakyan

Physics of Atomic Nuclei 2014 1313-1320

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

---

*Conference*

**Some Features of Isomeric Ratios in Nuclear Reactions Induced by p, d, and a**

A.S. Danagulyan, G.H. Hovhannisyan, T. M. Bakhshiyani

---

*Conference*

**Some Medical Radionuclides Production by C18/18 Cyclotron**

A.S. Danagulyan, G. H. Hovhannisyan

---

*Conference*

**The consistent description of diffusion and kinetic states of the adsorption of ligands on DNA immobilized molecules**

Valeri B.Arakelyan, Zaven E. Navoyan, Gohar G. Hovhannisyan, Poghos O. Vardevanyan

---

*Conference*

**47Sc PRODUCTION WITH ELECTRON ACCELERATOR**

G.H. Hovhannisyan, A.S. Danagulyan, T.M. Bakhshyan

---

*Conference*

**Photonuclear production of 47Sc isotope**

Gohar Hovhannisyan, Tiruhi Bakhshiyani

---

*Ematerial*

**Հետազոտությունների ճառագայթային մեթոդներ**

Գոհար Հովհաննիսյան

---

*Ematerial*

**ՄԻՋՈՒԿԱՅԻՆ ՖԻԶԻԿԱՅԻ ԼԱԲՈՐԱՏՈՐ ԱՇԽԱՏԱԼՔՆԵՐ**

Ռ. Մարգարյան, Գ. Հովհաննիսյան, Կ. Օհանյան, Լ. Պետրոսյան

---

*Conference*

**Formation of Medical Radioisotopes 111In in Photonuclear Reactions**

G.H. Hovhannisyan, T.M. Bakhshiyani

---

*Conference*

**ՃԱՆՐ ՄԻՋՈՒԿԱՅԻՆ ԻՆՔՆԱԿԱՄ ԵՎ ՀԱՐԿԱԴՐԱԿԱՆ ԲԱԺԱՆՄԱՆ ՀԱՉՎԱԳՅՈՒՏ ՊՐՈՑԵՍՆԵՐ**

Բալաբեկյան Ա.Ռ., Հովհաննիսյան Գ.Հ., Գագինյան Ս.Վ., Չոիրաբյան Հ.Գ., Խաչատրյան Պ.Ա

---