

# 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. Hovhannisyanyan, T. M. Bakhshiyanyan, 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. Hovhannisyanyan, T.M. Bakhshiyanyan

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 Hovhannisyanyan, Tatul Saghatelyan, 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. Hovhannisyanyan, A. R. Balabekyan, G. V. Martirosyan, T. M. Bakhshiyanyan, 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. Hovhannisyanyan, 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. Hovhannisyanyan, T.M. Bakhshiyanyan, 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. Hovhannisyanyan, R. K. Dallakyan,

K. Katovsky

Article

**Photonuclear Reactions on Medium-Mass Nuclei**

G. H. Hovhannisyan, T. M. Bakhshyan, 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. Hovhannisyan, T.M. Bakhshyan, 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. Hovhannisyan, A. V. Stepanyan, E. R. Saryan, 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  $^{58}, ^{60}, ^{61}, ^{64}\text{Ni}$ ,  $^{64}, ^{66}, ^{68}\text{Zn}$ , and  $^{63}, ^{65}\text{Cu}$  photo-nuclear reactions**

G.H. Hovhannisyan, T.M. Bakhshyan, R.K.Dallakyan, A.S. Danagulyan

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

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

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

Armenian Journal of Physics 2016 178-182

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

---

*Article*

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

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

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. Hovhannisyan, T. M. Bakhshiyani, R. H. Avagyan, A. E. Avetisyan, I.A.Kerobyan,

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. Hovhannisyan, A. S. Danagulyan, T. M. Bakhshiyani, R. H. Avagyan, A. E. Avetisyan, I.A.Kerobyan,

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*

**<sup>47</sup>Sc PRODUCTION WITH ELECTRON ACCELERATOR**

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

---

*Conference*

**Photonuclear production of <sup>47</sup>Sc 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 <sup>111</sup>In 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

---