

Anahit Rafiki Balabekyan

Research Institute of Physics

International Center for Advanced Studies

Head of the center

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Education

Institution	Yerevan State University
Faculty	Physics/Nuclear Physics
Date	1973 - 1978
Degree name	Qualified specialist

Scientific Rank/degree

Institution	Yerevan State University
Date	2019
Degree name	Professor
Specialty	Physico-mathematical sciences

Institution	Joint Institute of Nuclear Research /Dubna, RF/, Laboratory of Nuclear Problems
Date	2010
Degree name	Doctor
Specialty	Physico-mathematical sciences
Research Topic	Nuclear reactions on medium-weight separated isotopes and on heavy radioactive nuclei

Institution	Joint Institute of Nuclear Research /Dubna, RF/, Laboratory of Nuclear Problems
Date	1993
Degree name	Candidate
Specialty	Physico-mathematical sciences
Scientific Supervisor	A.H.Khudaverdyan, A.S.Danagulyan
Research Topic	"Photospallation of tin isotopes and investigation of the simple reactions by bremsstrahlung photons with maximum energy $E_{max} = 4.5\text{GeV}$

Language skills

Հայերեն Русский English

Work experience

Institution	Yerevan State University, International Center of Advanced Studies
Period of time	2025 - 2029
Rank/degree	Head

Institution	Yerevan State University, Chair of Nuclear Physics
Period of time	2013 - 2024
Rank/degree	Head of Chair

Institution	Yerevan State University, Chair of Nuclear Physics
Period of time	2003 - 2013
Rank/degree	associate professor

Institution	Joint Institute of Nuclear Research, Laboratory of Nuclear Problem
Period of time	1995 - 2005
Rank/degree	Senior Researcher

Institution	Yerevan State University, Laboratory of High Energy
Period of time	1988 - 1995
Rank/degree	Researcher

Institution	Yerevan State University, Chair of Nuclear Physics
Period of time	1978 - 1988
Rank/degree	senior Assistant

Scientific interests

- Nuclear Reactions
 - Fission reactions
 - Problems of Radioactive Waste
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Membership

Institution	National Laboratory after A.Alikhanyan, Dissertation Council N024
Period of time	2018 - 2023

Institution	Yerevan State University, Department of Physics
Period of time	2013 - 2023

Publications

Article

Low-pressure multi-wire proportional chamber-based fission-fragment sensitive detection

system: application in nuclear forensic analysis

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

A.T. Margaryan

European Physical Journal: Special Topics 2025 123504

Article

Investigation of photonuclear reactions on isotopes ^{51}V , ^{nat}Cu , ^{nat}Mo , ^{115}In and ^{207}Pb at photon energy $E_{\text{max}} = 20\text{--}70\text{ MeV}$

A.R. Balabekyan, S. Gaginyan, A. Aleksanyan, S. Amirkhanyan, L. Poghosyan, N.A. Demekhina, G. Avdalyan

Radiation Physics and Chemistry 2023 110651

Article

Proton induced reactions on ^{114}Sn and ^{120}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}Sc in photonuclear reactions on ^{nat}Ti 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

Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 209-217

Article

Ճանր միջուկների բաժանման հազվագյուտ պրոցեսներ

Գոհար Հովհաննիսյան, Անահիտ Բալաբեկյան, Ամուր Մարգարյան

Գիտության աշխարհում 2022 36-43

Article

A Study of Alpha Particle Production in Photonuclear Reactions at Photon Energies of 21 and 40 MeV

A. R. Balabekyan, N. A. Demekhina, E. Melyan, S. Faltajanyan, A. Aleksanyan, S. Amirkhanyan, H. Gulkanyan, T. Kotanjyan, A. S. Hakobyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2020 1-7

Article

Isovector pair correlations in analytically solvable models

A. Balabekyan, G. Nikoghosyan, E. A. Kolganova, R. V. Jolos, D. A. Sazonov

International journal of Modern physics E 2020 2050091

Article

The Study of Photoproduction of Cobalt Radioisotopes from Copper Nuclei

A. Y. Aleksanyan, S. M. Amirkhanyan, A. Balabekyan, N. A. Demekhina, H. R. Gulkanyan, T. V. Kotanjyan, V. Mangasaryan, V. S. Pogosov, L. A. Poghosyan, S. Faltajanyan

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2020 275-283

Article

Spallation reactions induced by 4.4 GeV deuterons on lead isotopes

S V Gaginyan, A R Balabekyan, G S Karapetyan, N A Demekhina, J R Drnoyan, V I Zhemenik, J Adam, L Zavorka, A A Solnyshkin, V M Tsoupko-Sitnikov, J Khushvaktov, V Pronskikh, V M Zhamkochyan, V Guimarães, A Deppman

Journal of Physics G: Nuclear and Particle Physics 2019 095103(1-23)

Article

Fragment production in proton-induced reaction on ^{209}Bi target at intermediate energy range

A. R. Balabekyan, G. S. Karapetyan, E. Andrade-II, A. Deppman, S. V. Gaginyan, E. Melyan, J. R. Drnoyan, V. I. Zhemenik, J. Adam, L. Zavorka, A. A. Solnyshkin, V. M. Tsoupko-Sitnikov, J. Khushvaktov,

E. B. Hernández

Physical Review C 2019 024616(1-9)

Book

Միջուկային փոխազդեցություններ

Անահիտ Բալաբեկյան

2019 142

Article

Reactions $^{11}\text{B} + ^{209}\text{Bi}$ at energies above Coulomb barrier

A.R. Balabekyan, N.A. Demekhina, Yu. E. Penionzhevich, N. K. Skobelev, S.M. Lukyanov, V. Burjan

EURASIAN JOURNAL OF PHYSICS AND FUNCTIONAL MATERIALS 2018 6-16

Article

Systematic study of fission modes in the proton-induced fission of actinide and pre-actinide

A R Balabekyan, E Andrade, G S Karapetyan, A Deppman, J L Bernal-Castillo, Valdir Guimaraes, J Adam, F Garcia, F Guzman

Journal of Physics G: Nuclear and Particle Physics 2018 015105(1-24)

Article

Isotopic Dependence of Fragment Production Cross Sections in the Reactions of Deuterons on Enriched Lead and Tin Isotopes

A. R. Balabekyan, G. Karapetyan, N. A. Demekhina, S. V. Gaginyan, D.R.Drnoyan, V. I. Zhemelik, J.Adam, L.Zavorka, A. A. Solnyshkin, V. M. Tsoupko-Sitnikov, J. Khushvaktov
Physics of Atomic Nuclei 2018 804-809

Article

Isomer production in intermediate-energy deuteron-induced reactions on a gold target

A.R. Balabekyan, G.S.Karapetyan, N. A. Demekhina, D. R. Drnoyan, V. I. Zhemelik, J. Adam, L. Zavorka, A. A. Solnyshkin, V. M. Tsoupko-Sitnikov, V. Guimaraes, A. Deppman
Physical Review C 2016 054614-1-054614-
<https://journals.aps.org/prc/>

Article

МЕТОД НАВЕДЕННОЙ АКТИВНОСТИ ДЛЯ ИССЛЕДОВАНИЯ ЯДЕРНЫХ РЕАКЦИЙ НА ИЗОТОПАХ Pb И Sn

А.Р. БАЛАБЕКЯН, С.В. ГАГИНЯН, ДЖ.Р. ДРНОЯН
Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2016 291-299
<http://www.flib.sci.am/eng/Fizika/Frame.html>

Article

Աստղերի էներգիայի աղբյուրը

Ա.Ռ.Բալաբեկյան, Է.Լ. Կարապետյան
Բնագետ 2016 66-72
<http://www.ysu.am/bnaget>

Article

Interaction of ^{11}B with ^{209}Bi and ^{181}Ta targets at intermediate energies.

A.R.Balabekyan, G.S.Karapetyan, A.Deppman, V.Guimaraes, N.A.Demekhina
Physical Review C 2016 024618-1-8
<https://journals.aps.org/prc/>

Manual

Միջուկային ռեակցիաներ

Ա.Ռ.Բալաբեկյան
2013 75

Conference

NUCLEAR REACTIONS OF DEUTERONS WITH SEPARATED LEAD ISOTOPES AT 2.2 GEV/NUCLEON ENERGIES

A.R. Balabekyan, S.V.Gaginyan, N.A.Demekhina, G.S.Karapetyan

Conference

PHOTOPRODUCTION OF ALFA-PARTICLES FOR MEDIUM WEIGHT AND HEAVY NUCLEI IN ENERGY RANGE 20-40 MEV

A.R.Balabekyan, E. Melyan, S. Faltajanyan, N.A. Demekhina, A. Aleksanyan, S. Amirkhanyan, H. Gulkanyan, T. Kotanjyan

Conference

THE STUDY OF PHOTOPRODUCTION OF COBALT RADIOISOTOPES FROM COPPER NUCLEI

A. Balabekyan, A. Aleksanyan, S. Amirkhanyan, N. Demekhina, S. Faltajanyan, H. Gulkanyan,
T. Kotanjyan, V. Mangasaryan, L. Poghosyan, V. Pogosov

Conference

ՃԱՆՐ ՄԻՋՈՒԿՆԵՐԻ ԻՆՔՆԱԿԱՄ ԵՎ ՀԱՐԿԱԴՐԱԿԱՆ ԲԱԺԱՆՄԱՆ ՀԱՉՎԱԳՅՈՒՏ ՊՐՈՑԵՍՆԵՐ

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

Conference

Determination of photoneutron production from different targets irradiated by electron beam

Melyan E., Katovsky K., Kral D., Zeman M., Svoboda J., Balabekyan A., Gaginyan S., Poghosyan L.,
Marukyan H., Manukyan A.

Conference

Reaction rates determination for activation detectors in neutron spectrum generated by 70 MeV electrons

Zeman, M., Holomb, R., Katovsky, K., Kral, D., Melyan, E., Stastny, O., Svoboda, J., Balabekyan, A.,
Gaginyan, S., Haysak, I.
