

Anahit Rafiki Balabekyan

Institute of Physics
Chair of Nuclear Physics
Professor

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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 Researche /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 Researche /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 Russian English

Work experience

Institution	Yerevan State University, Chair of Nuclear Physics
Period of time	2013 - 2023
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 Hight 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 Rections
- Fission reactions
- Problems of Radioactive Waste

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

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

A.R.Balabekyan, S.Gaginyan, A.Aleksanyan, S.Amirkhanyan, L.Poghosyan, N.A.Demekhina, G.Avdayan
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. Hovhannisyan, A. R. Balabekyan, G. V. Martirosyan, T. M. Bakhshyan, 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}Sc in photonuclear reactions on natTi targets at the bremsstrahlung****endpoint energy of 30 and 40 MeV**

G.H. Hovhannisyan, T.M. Bakhshyan, 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

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

*Article***Ծանր 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 Guimaraes, 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. Zhemenik, 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. Zhemenik, J. Adam, L. Zavorka, A. A. Solnyshkin, V. M. Tsoupko-Sitnikov, V. Guimaraes, A. Deppman

Article

МЕТОД НАВЕДЕННОЙ АКТИВНОСТИ ДЛЯ ИССЛЕДОВАНИЯ ЯДЕРНЫХ РЕАКЦИЙ НА

ИЗОТОПАХ Rb 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, Ե.Լ. Կարապետյան

Բնագետ 2016 66-72

<http://www.ystu.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

ԾԱՆՐ ՄԻՋՈՒԿՆԵՐԻ ԻՆՔԱՆԱԿԱՆ ԵՎ ՀԱՐԿԱԴՐԱԿԱՆ ԲԱԺԱՆԱՄԱՆ ՀԱՅԿԱԳՅՈՒՄ ՊՐՈՑԵՍՆԵՐ

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