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🎓 Образование

Учреждение	Ереванский государственный университет
Факультет	физика
Дата	1975 - 1984
Степень / Звание	Аспирант

🎓 Ученое звание/Ученая степень

Учреждение	Ереванский государственный университет
Дата	2017
Степень / Звание	Доктор наук
Специальность	Физико-математические науки
Научная тема	ТЕОРИЯ РЕНТГЕНОВСКИХ ДИФРАГИРОВАННЫХ ВОЛНОВЫХ ПОЛЕЙ, ДИНАМИЧЕСКОЙ КОГЕРЕНТНОЙ ГОЛОГРАФИИ И ИНТЕРФЕРОМЕТРИИ

🌐 Знание языков

Հայերեն English Русский

💼 Опыт работы

Учреждение	Ереванский государственный университет
Период времени	1980 до настоящего времени
Звание/степень	ведущий научный сотрудник

☝️ Научные интересы

- рентгеновская динамическая дифракция, рентгеновская голограмма и интерферометрия,
рентгеновская оптика

👤 Членство

Учреждение	Интернациональное объединение кристаллографов
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Публикации

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Double-slit X-ray dynamical diffraction in elastically deformed crystals

Minas K. Balyan

Acta Crystallographica A-Foundation and Advances 2025 294-305

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Double-slit asymmetrical dynamical diffraction of X-rays in ideal crystals

Minas Balyan

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Vahram Mkrtchyan, Ashot Aivazyan, Sargis Petrosyan, Minas Balyan

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Статья

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M. K. Balyan

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Double-slit X-ray dynamical diffraction in curved crystals

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Vector Monochromatic Diffraction Fields and Fields of Charges in Electrodynamics

M. K. Balyan

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Vector Non-Stationary Electromagnetic Diffraction Fields and Fields of Charges in Media

M. K. Balyan

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M.K. Balyan

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X-ray third-order nonlinear diffraction in the asymmetric reflection geometry

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Coherence Requirements for X-Ray Dynamical Diffraction Talbot Effect Inside a Crystal

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X-ray dynamical diffraction Talbot effect behind a crystal in free space

Minas Balyan, Levon Levonyan, Karapet Trouni

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Hard X-Ray Off-Axis Fresnel Holography using Two-Block Fresnel Zone Plate Interferometer

L.A.Haroutunyan, M.K.Balyan

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Testing of a 'hard' X-ray interferometer for experimental investigations

Tigran H. Eryamjyan, Mesrop H. Mesropyan, Tamara S. Mnatsakanyan, Minas K. Balyan

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Investigation of third-order nonlinear dynamical X-ray diffraction based on a new exact solution

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РЕНТГЕНОВСКАЯ ФРЕНЕЛЕВСКАЯ ОСЕВАЯ ГОЛОГРАФИЯ С ИСПОЛЬЗОВАНИЕМ

ТРЕХБЛОЧНОГО ИНТЕРФЕРОМЕТРА ИЗ ФРЕНЕЛЕВСКИХ ЗОННЫХ ПЛАСТИН

Л.А. АРУТЮНЯН, М.К. БАЛЯН

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M K Balyan

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An X-Ray Dynamical Diffraction Analogue of Talbot Effect in the Transmitted Beam

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М.К.Балян

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Bragg diffraction of spherical X-ray wave with allowance for two-dimensional curvature of waveform

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Numerical reconstruction of an object image using an X-ray dynamical diffraction Fraunhofer hologram

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Theoretical consideration of an X-ray Bragg-reflection lens using the eikonal approximation

Minas K.Balyan

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Measurement of the refractive index of nematic liquid crystals 5CB by means of x-ray interferometry

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Eikonal approximation of dynamical diffraction equations for X-ray beams with two dimensional curvature of the wave-front. I. Basic formulas

M.K.Balyan

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Mlinas K.Balyan

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Study of the X-ray anisotropy of materials via X-ray interferometry

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Статья

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Статья

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Minas K. Balyan

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Статья

Исследование рентгено-оптической анизотропии материалов рентгеноин-

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Л.Г.Гаспарян, В.П.Мкртчян, М.К.Балян

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Статья

Искусственная ультразвуковая анизотропия кристаллов в области рентгеновских частот

Л.Г. Гаспарян, В.П. Мкртчян, М.К. Балян, А.С. Мелконян

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2007

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Статья

Модуляция рентгеновского пучка на основе модуляции кристаллической решетки

М.К.Балян, Л.А.Арутюнян

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2006

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Статья

Температурная искусственная анизотропия кристаллов в области рентгеновских частот

Л.Г. Гаспарян, В.П. Мкртчян, М.К. Балян, А.Г. Григорян

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2006

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О возможности создания новой дифракционно-рефракционной линзы для жесткого

рентгеновского излучения

М.К.Балян, Л.Г.Гаспарян, А.Г.Григорян, М.М.Агасян

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2004

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Влияние внешних воздействий на Брэгг-Лаузскую дифракцию рентгеновских лучей

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О возможности создания короткофокусной вертикально фокусирующей

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Влияние кристаллических искажений на образование и вид маятниковых полос, I

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Конференция

X-ray interferometric temperature gradient moire fringes in the frame of eikonal approximation

Minas Balyan

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X-ray nonlinear Bragg diffraction

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X-Ray Dynamical Diffraction 'Third Order Nonlinear Renninger Effect'

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Mathematical Reconstruction of an Object Image Using X-Ray Interferometric Fourier Holography Method

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Measurement of the Refractive Index of Nematic Liquid Crystals 5CB by Means of X-ray

Interferometry

V.P.Mkrtchyan, L.G.Gasparyan, T.K.Dadalyan, M.K.Balyan, A.V.Kuyumchyan

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X-ray dynamical diffraction Talbot effect under the condition of two-wave dynamical diffraction in crystals

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X-ray LLL interferometer with wedge-shaped mirror plate

Tigran H. Eyramjyan, Tamara S. Mnatsakanya, Minas K. Balyan

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Hard X-Ray Fourier Transform Holography Based on Two-Block Fresnel Zone Plate

Interferometer with Common Optical Axis

L.A. Haroutunyan, M.K.Balyan

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Double-Slit X-ray Dynamical Diffraction in the Transmitted and Diffracted Beams

A. P. Aivazyan, M. K. Balyan, S. A. Petrosyan, V. P. Mkrtchyan
