llevonyan@ysu.am

Կոնդենսացված վիճակի ֆիզիկայի կենտրոն
Պինդ մարմնի ֆիզիկայի լաբորատորիա
Senior Researcher

Research Institute of Physics
Կոնդենսացված վիճակի ֆիզիկայի կենտրոն
Պինդ մարմնի ֆիզիկայի լաբորատորիա
Senior Researcher

Institute of Physics
Chair of Condensed Matter Physics
Associate professor

Publications

Conference
X-ray Diffraction Image of a Low-Angle Twist Boundary
L.V. Levonyan, H.M. Manukyan

2025 71 - 71

https://school.iapp.am/

Conference
Two–dimensional Focusing of an X–ray Beam
L.V. Levonyan, H.M.Manukyan

2025 69 - 69

https://iappconfschool.am/

Article
Study of phase objects by dynamical diffraction of a spherical X-ray wave in a crystal using a temperature gradient
L. Levonyan, H. Manukyan

Journal of Instrumentation 2024 C02058

Article
Features of Spherical X-Ray Wave Diffraction by a Low Angle Twist Boundary Perpendicular to the Crystal Surface [Особенности дифракции сферической рентгеновской волны на малоугловой границе кручения, перпендикулярной поверхности кристалла]
L. V. Levonyan, H. M. Manukyan

Proceedings of NAS RA Physics 2024 214–218

Article
X-Ray Phase Contrast in a Superlattice in the Presence of a Temperature Gradient [Рентгеновский фазовый контраст в сверхрешетке при наличии температурного градиента]
L. V. Levonyan, H. M. Manukyan

Proceedings of NAS RA Physics 2024 337–341

Article
Determination of the superlattice structure factor by X-ray diffraction using a temperature

gradient
Levon Levonyan, Hasmik Manukyan

Acta Crystallographica Section A Foundations and Advances 2023 14-19

Conference

Study of Phase Objects by Dynamical Diffraction of a Spherical X–ray Wave in a Crystal using a Temperature Gradient
L.V.Levonyan, H.M.Manukyan

2023 94 - 94

https://conference.iapp.am/

Article

X-ray dynamical diffraction Talbot effect behind a crystal in free space
Minas Balyan, Levon Levonyan, Karapet Trouni

Acta Crystallographica Section A Foundations and Advances 2021 149-159

Article

Spherical-wave X-ray dynamical diffraction Talbot effect inside a crystal
Minas K. Balyan, Levon V. Levonyan, Karapet G. Trouni

Acta Crystallographica Section A Foundations and Advances 2020 494-502

Article

Study of Two-Dimensional Phase Objects by Diffraction Focusing of Cylindrical X-Ray Wave on a Superlattice With Variable Period
L.V. Levonyan, H.M. Manukyan

Armenian Journal of Physics 2020 278-283

Article

Influence of Interdiffusion of Heteromaterials on the Diffraction Focusing of Spherical X-Ray Wave in a Superlattice
L.V. Levonyan, H.M. Manukyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2019 203–209

Conference

Peculiarity of X-ray Phase Contrast at Diffraction Focusing of a Spherical Wave in a Superlattice
L.V. Levonyan, H.M. Manukyan

2019 73-74

http://anam2019.org/

Conference

Study of two-dimensional phase objects by diffraction focusing of cylindrical X-ray wave on a superlattice with variable period
L.V.Levonyan, H.M.Manukyan

2019 48

https://conference.iapp.am/

Conference

Study of two-dimensional phase objects by diffraction focusing of cylindrical X-ray wave on a superlattice with variable period

L.V.Levonyan, H.M.Manukyan

2019 58-63

http://conference.iapp.am/?module=article&utility=show_article&id_article=29

Article

Рентгеновский фазовый контраст при дифракционной фокусировке сферической волны в сверхрешетке с малым периодом
Л.В. Левонян, А.М. Манукян

Proceedings of NAS RA Physics 2018 120-124

Article

X-ray Phase Contrast at Diffraction Focusing of a Spherical Wave in a Short-Period Superlattice
L.V.Levonyan, H.M.Manukyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2018 92-94

Article

FEATURES OF DIFFRACTION FOCUSING OF A SPHERICAL X-RAY WAVE ON A SHORT PERIOD SUPERLATTICE
L.V.Levonyan, H.M.Manukyan

Proceedings of the YSU A Physical and Mathematical Sciences 2017 113-116

http://www.ysu.am/science/en/journals

Article

COMPARATIVE ANALYSIS OF TWO DIFFRACTION SCHEMES FOR WIDELY DIVERGENT BEAM OF X-RAY RADIATION
K.T.Avetyan, L.V.Levonyan, H. S. SEMERJYAN

Proceedings of the YSU A Physical and Mathematical Sciences 2017 81-84

http://www.ysu.am/science/en/journals

Conference

Formation of the X-ray phase contrast under the diffraction focusing of the spherical wave on the short period superlattice
L.V. Levonyan, H.M.Manukyan

2017 58

http://conference.iapp.am

Conference

Формирование рентгеновского фазового контраста при дифракционной фокусировке сферической волны в сверхрешетке с малым периодом
Л.В.Левонян, А.М.Манукян

2017 196-200

http://conference.iapp.am/

Article

ДИНАМИЧЕСКАЯ ДИФРАКЦИЯ СФЕРИЧЕСКОЙ РЕНТГЕНОВСКОЙ ВОЛНЫ НА СВЕРХРЕШЕТКЕ
Л.В.ЛЕВОНЯН, А.М.МАНУКЯН

Proceedings of NAS RA Physics 2016 95-101

http://www.flib.sci.am/eng/Fizika/Frame.html

Article

Dynamical Diffraction of Spherical X-ray Wave on a Superlattice
L. V. Levonyan, H. M. Manukyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2016 73-78

http://www.springer.com/physics/particle+and+nuclear+physics/journal/11958

Article

Study of Superlattices by Diffraction Focusing of X-ray Radiation
L.V.Levonyan, H.M.Manukyan

Proceedings of the International Conference on Electron, Positron, Neutron and X –Ray Scattering under External Influences
2016 101-106

https://istina.msu.ru/collections/24207893/

Article

ДВЕ СХЕМЫ ДИФРАКЦИИ ШИРОКО РАСХОДЯЩЕГОСЯ ПУЧКА РЕНТГЕНОВСКОГО ИЗЛУЧЕНИЯ
М.М.Аракелян, К.Т.Аветян, Л.В.Левонян, О.С.Семерджян, О.М.Бадалян, Д.А.Зейналян

Proceedings of NAS RA Physics 2015 118-125

http://www.flib.sci.am/eng/Fizika/Frame.html

Article

ОСОБЕННОСТИ ДВУХ СХЕМ ДИФРАКЦИИ ШИРОКО РАСХОДЯЩЕГОСЯ ПУЧКА РЕНТГЕНОВСКОГО ИЗЛУЧЕНИЯ
М.М.Аракелян, К.Т.Аветян, Л.В.Левонян, О.С.Семерджян, О.М.Бадалян

Кристаллография (Crystallography Reports) 2015 207-211

http://elibrary.ru/title_about.asp?id=7861

Conference

Study of superlattices by diffraction focusing of x-ray radiation
L.V.Levonyan, H.M.Manukyan

2015 33

http://conference.iapp.am

Conference

Influence of Interdiffusion of Heteromaterials on the X-Ray Spherical Wave Diffraction by Superlattice
L.V. Levonyan, H.M.Manukyan

2015 77-78

Conference

Focusing of X-Rays on a surface acoustic wave in case of small grazing angles
L.V.Levonyan

2015 43

http://conference.iapp.am

Conference

The peculiarities of the image contrast formed by scattered x-ray radiation
K.T.Avetyan, L.V. Levonyan, O.S.Semerdzhyan

2015 64

http://conference.iapp.am

Conference

The peculiarities of the image contrast formed by scattered x-ray radiation
K.T.Avetyan, L.V. Levonyan, O.S.Semerdzhyan

2015 72

Article

Усовершенствованная теория дифракции рентгеновских волн в условиях зеркального отражения
М.К.Балян, Л.В.Левонян

Proceedings of NAS RA Physics 2000 309-319

http://www.flib.sci.am/eng/Fizika/Frame.html

Article

О возможности создания короткофокусной вертикально фокусирующей рентгенодифракционной линзы
Л.В.Левонян, М.К.Балян

Письма в журнал технической физики (Technical Physics Letters) 1993 47-50

http://journals.ioffe.ru/journals/editors/4

Article

Two –dimentional diffraction focusing of X-ray Radiation in Laue Geometry
L.V.Levonyan, M.K.Balyan

PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE 1993 247-255

http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1862-6319/homepage/2231_ed...