

Publications

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

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2024 214-218

Article

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

Levon Levonyan, Hasmik Manukyan

Acta Crystallographica A-Foundation and Advances 2023 14-19

Article

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

Minas Balyan, Levon Levonyan, Karapet Trouni

Acta Crystallographica A-Foundation 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

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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

Article

Рентгеновский фазовый контраст при дифракционной фокусировке сферической волны в сверхрешетке с малым периодом

Л.В. Левонян, А.М. Манукян

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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

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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

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Article

ДИНАМИЧЕСКАЯ ДИФРАКЦИЯ СФЕРИЧЕСКОЙ РЕНТГЕНОВСКОЙ ВОЛНЫ НА СВЕРХРЕШЕТКЕ

Л.В.ЛЕВОНЯН, А.М.МАНУКЯН

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Study of Superlattices by Diffraction Focusing of X-ray Radiation

L.V.Levonyan, H.M.Manukyan

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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
Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2015
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РЕНТГЕНОВСКОГО ИЗЛУЧЕНИЯ**

М.М.Аракелян, К.Т.Аветян, Л.В.Левонян, О.С.Семерджян, О.М.Бадалян

Кристаллография (Crystallography Reports) 2015 207-211

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**Усовершенствованная теория дифракции рентгеновских волн в условиях зеркального
отражения**

М.К.Балян, Л.В.Левонян

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2000
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**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

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Two -dimensional diffraction focusing of X-ray Radiation in Laue Geometry

L.V.Levonyan, M.K.Balyan

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Conference

Study of superlattices by diffraction focusing of x-ray radiation

L.V.Levonyan, H.M.Manukyan

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**Influence of Interdiffusion of Heteromaterials on the X-Ray Spherical Wave Diffraction by
Superlattice**

L.V. Levonyan, H.M.Manukyan

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Focusing of X-Rays on a surface acoustic wave in case of small grazing angles

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The peculiarities of the image contrast formed by scattered x-ray radiation

K.T.Avetyan, L.V. Levonyan, O.S.Semerdzhyan

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Formation of the X-ray phase contrast under the diffraction focusing of the spherical wave on the short period superlattice

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Формирование рентгеновского фазового контраста при дифракционной фокусировке сферической волны в сверхрешетке с малым периодом

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