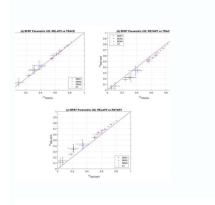
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КОМПЛЕКТ МНОГОСЛОЙНЫХ РЕНТГЕНОВСКИХ ЗЕРКАЛ ДЛЯ ДВУХЗЕРКАЛЬНОГО МОНОХРОМАТОРА В ДИАПАЗОНЕ **ДЛИН ВОЛН 0.41-15.5 нм** 

© 2019 г. А. А. Ахсахалян<sup>1</sup>, Ю. А. Вайнер<sup>1</sup>, С. А. Гарахин<sup>1</sup>, К. А. Елина<sup>2</sup>, П. С. Заверткин<sup>2</sup> С. Ю. Зуев<sup>1</sup>, Д. В. Ивлюшкин<sup>2</sup>, А. Н. Нечай<sup>1</sup>, А. Д. Николенко<sup>2</sup>, Д. Е. Парьев<sup>1</sup>, Р. С. Плешков<sup>1</sup>, В. Н. Полковников<sup>1</sup>, Н. Н. Салащенко<sup>1</sup>, М. В. Свечников<sup>1</sup>, Н. И. Чхало<sup>1, 1</sup> Чнетитут физики микроструктур РАН, 607680 Нижний Новгород, Россия <sup>2</sup>Институт ядерной физики имени Г.И. Будкера СО РАН, 630090 Новосибирск, Россия \*E-mail: chkhalo@ipm.sci-nnov.ru

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Оптимизирован состав, рассчитаны рентгенооптические характеристики, изготовлен и изучен ком плект многослойных зеркал для модернизированной версии двухзеркального монохроматора, установленного на синхротроне ВЭПП-5 Института ядерной физики им. Г.И. Будкера. За счет использования семи поддвапазонов, для каждого из которых выбрана оптимальная пара материалов, ком плект зеркал обеспечивает высокле, от 10 до 75%, коэффициенты отражения в широком двалазоне значений энергии фотонов 80–3000 эВ и длин воли 0.413–15.48 им. Сообщается о принципах оптимизации пар материалов. Впервые изготовлены и изучены многослойные зеркала на основе пары

Кличевые слова: многослойное рентгеновское зеркало, синхротронное излучение, рентгеновская DOI: 10.1134/S0207352819010025

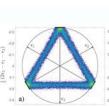
**ВВЕЛЕНИЕ** 

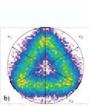
Лля значительной части экспериментов с использованием синхротронного излучения достаспектрального разрешения на уровне  $\lambda/\Delta\lambda \sim 100$ , а на первый план выходят высокие шение примерно в 1.4 раза. пиковые и интегральные коэффициенты отражения. Также критически важной является мини- вания МРЗ на практике являются относительно мизация влияния длинноволнового и коротко- невысокие требования к конструкции спектро волнового излучений на результаты эксперимен- метра-монохроматора. Большие рабочие углы и тов на выбранной длине волны. В наибольшей широкая кривая качания существенно упрощаю степени этим условиям удовлетворяют много- требования к точности механических узлов. слойные рентгеновские зеркала (МРЗ) брэгтовволнового, так и длинноволнового излучений в фективно подавляется за счет межслоевых шеро- которая с 2007 г. по настоящее время функциона

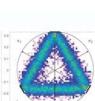
 $R_m \sim \exp(-4\pi^2(m\sigma/d)^2)$ . Двукратное отражение в составе двухзеркального монохроматора только усиливает фильтрующие свойства МРЗ, а также

Дополнительным преимуществом использо-В 1998 г. в Институте ядерной физики

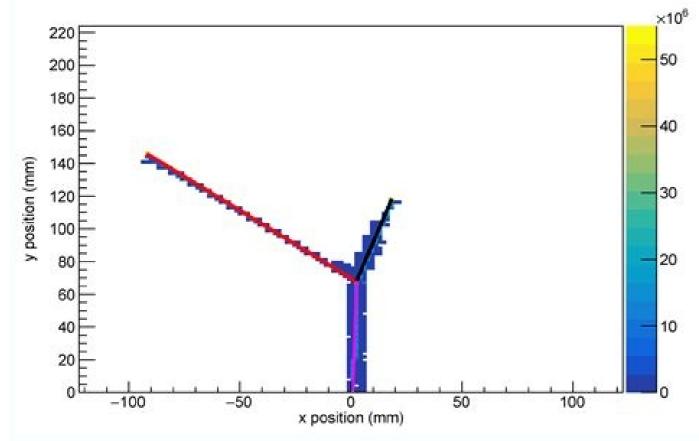
ского типа. Большие рабочие углы, существенно им. Г.И. Будкера СО РАН был разработан спекпревосходящие критические углы полного внеш- трометр на основе двухлеркально монохроматора него отражения, подавляют вклады как коротко- [1]. Спектрометр позволял исследовать спектры мягкого рентгеновского излучения в диапазоно результирующий монохроматический сигнал. значений энергии фотонов от 150 до 1800 эВ Іногослойные зеркала также могут эффективно (0.7-8.2 им) со спектральной селективностью подавлять высшие порядки дифракции. Четные порядки можно подавить практически до уровня использовались MP3 на основе Fe/C, изготовнерезонансного отражения за счет выбора тол- ленные методом импульсного лазерного напыле шины сильно и слабо поглошающих материалов ния [2], и на основе W/Si, изготовленные магнедля периода в соотношении 1:1. Отражение тронным распылением [3]. Подобные зеркала гретьей и высших резонансных т-гармоник эф-применяют в монохроматоре станции "Космос",







коватостей б, так как коэффициент отражения рует на накопителе ВЭПП-4 в Институте ядерной



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