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X-Ray Acoustic Diffractometer

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The aim of this work is to show the advantages of monochromatic X-ray beam obtained by the acoustic monochromator (AM) with respect to X-ray beam obtained by the Bragg monochromator. On the basis of the AM, X-ray detector and a goniometer with two heads, developed at the Institute of IAPP NAS RA, and using only usual (old) diffractometers X-ray tube, an automated diffractometer for structural studies at high speed and high accuracy is designed.

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