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Mössbauer spectrometer providing measurement of spectral dependences on external parameters

Dulov E., Ivoilov N., Khripunov D.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

A method of simultaneous measurement of Mössbauer spectra for a set of discrete values of an external parameter is proposed. The method proposed makes it possible to simplify series measurements and replaces a number of specialized techniques. The possibilities of the spectrometer have been experimentally demonstrated by the example of observation of the dependences of the Mössbauer spectra of an α -Fe foil on the external magnetic field strength. © Allerton Press, Inc. 2007.

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