

Transparency of a thin absorber in mössbauer optics with allowance for electron relaxation

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Abstract

A model of Mössbauer absorption in the nuclear level anticrossing regime with allowance for electron relaxation has been proposed. The role of quantum interference in the creation of particular transparency on Mössbauer transitions under these conditions has been determined and the dependence of this characteristic on the relaxation and mixing parameters has been obtained using the stochastic theory of Mössbauer relaxation spectra. © 2008 Pleiades Publishing, Ltd.

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