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Modeling of gamma-avalanche formation in the "optical" thick medium with 178Hf through the nuclear diffraction channel

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Abstract

The formation of γ-avalanche in the medium with 178Hf isotope has modeled through the nuclear diffraction channel. The equation system describing the process under two-wave Bragg diffraction conditions has obtained. The numerical simulation for the "optical" thick medium has been made.

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Keywords

Borrmann effect, Bragg diffraction, Nuclear superfluorescence