

Threshold energy density studies at the laser ablation of the optical crystals for the ir spectrum

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The phenomena based on the laser ablation at the matter take a place in the modern technologies everywhere. These phenomena theoretical and experimental studies lay in the focus of our research work yet many years [1–5]. Modification of the crystals surface by the different chemical composition allows to change its optical properties in ir spectrum and to improve their strength characteristics. Further to the works [3, 5] the dependence of the threshold energy density F_{bn} at the laser ablation studies of the optical crystals (such a type $AgCl_xAgBr_y$ [6]) surface under the pulsed laser radiation with time duration of 20 ns on the such a samples beam strength have been fulfilled. The laboratory setup for the laser ablation of the studied samples was assembled on the basis of an experimental laser station in [1, 5].

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