



Picosecond third-order nonlinearity of lead-oxide glasses in the infrared

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Auteur	de Araújo, Cid B [1], Falcao-Filho, Edilson L [2], Humeau, A. [3], Guichaoua, Dominique [4], Boudebs, Georges [5], Kassab, Luciana RP [6]
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Résumé en anglais	Heavy metal-oxide glasses containing lead and bismuth were prepared, and their picosecond third-order nonlinear (NL) optical characteristics were investigated. NL refractive indices of $\approx 10-18$ m ² /W at 1064 nm were measured. Negligible NL absorption was verified and, as a consequence, the samples present a good factor-of-merit for photonic applications.
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