

Obtaining and study of properties of CaF₂-Eu²⁺ light-transmitting ceramics. Poluchenie i issledovanie svojstv svetoprozrachnoj keramiki CaF₂-Eu²⁺

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Abstract

Scintillation ceramics of calcium fluoride doped by two-valent europium ions is produced. Properties of this ceramics are studied. It is shown that it may be applied for [alpha]-, [beta]- and low-energy (up to 100 keV) [gamma]-radiation detection under the radiation monitoring of the environment and food stuff, in medical diagnostics, in nuclear physics devices etc.

Authors: Zverev, N D; Chernikov, V V; Zagarij, L B; Kudin, A M; Reznik, S I
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