

Abstract Submitted
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Ion Size Effect in Glow Peak Temperature in Binary Mixed Crystals Doped with Divalent Europium¹ RICARDO RODRIGUEZ-MIJANGOS, RAUL PEREZ-SALAS, Universidad de Sonora — Thermoluminescence measurements at room temperature of “beta” irradiated divalent Europium doped binary mixed alkali halides with KCl and KBr components at several concentrations x in molar fraction. The experiments have been carried out to identify the effect of composition of glow peaks. A typical glow peak has been distinguished for each composition. A linear dependence of its temperature on the composition x has been found. This is associated with the size change of ions Cl and Br. Initial comparative cathodoluminescent measurement was carried out irradiating a single sample with electrons in an electron microscopy using a 30 KV voltage. With the present results is speculated the behavior of the mixed binary crystals with components KCl and RbCl, doped with divalent Europium.

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