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Paramagnetic Defects in γ-Irradiated, Pure and Doped (with As, Cl and Br) Selenium

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Abstract: This paper presents results of an EPR spectrum investigation of γ-irradiated (Co^{60} dose 10^7 Rad) glasses Se, $SeCl_x$, $Se_{0.95}As_{0.05}Cl_x$ and $Se_{0.95}As_{0.05}Br_x$ (x=0.001--0.1) at 77 K. An analysis of spectra reveals that two types of paramagnetic radiation-induced defects arise (broken bonds localized on Se and As atoms) from the irradiation of such chalcogenide glasses.

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