

ELECTRONIC RELAXATIONS OF RADIATIVE
DEFECTS OF THE ANION SUBLATTICE
IN CESIUM BROMIDE CRYSTALS
AND EXOEMISSION OF ELECTRONS

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S u m m a r y

The paper presents the results of investigations of thermostimulated exoelectron emission (TSEE) from CsBr crystal, excited by moderate doses ($D \leq 10^4$ Gy) of ultraviolet ($h\nu \leq 7$ eV) that selectively creates anion excitons and radiative defects in the anion sublattice. Having used the previously established connection between thermoactivated processes such as thermostimulated exoemission, electroconductivity, and luminescence in the irradiated crystal lattice, the concentrations of exoemission-active centers (EAC) and kinetics parameters of TSEE are calculated. The EAC concentration calculated on a base of the bulk, thermoactivated-recombinational, and band-gap Auger-like exoemission mechanisms, are in satisfactory agreement with the concentration of electron color centers in the irradiated crystals.