

ZÁŘENÍM INDUKOVANÉ BODOVÉ DEFEKTY V OPTICKÝCH MATERIÁLECH. STUDIUM KORELOVANÝMI METODAMI EPR A TSL.

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Anotace:

The work would be dedicated to the study of trapping states (point defects) induced by X-rays in oxide and halide materials either undoped or doped with transition metal ions. The point defects charge states, local surrounding and thermal stability as well as trap depths would be studied by electron paramagnetic resonance and thermally stimulated luminescence in correlated manner. Special attention would be paid to the irradiation dose and irradiation history because the defects number and distribution depends on the amount of high energy delivered to a sample.