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Defect Structure of Glow Peak 1 in LiF:Mg,Ti (TLD-100)

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 [Keywords](#)
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Abstract: The possible defect structure of peak 1 of LiF:Mg,Ti (TLD-100) was studied in the present work after different pre-irradiation heat treatments between 80°C and 150°C using the computer glow curve deconvolution (CGCD) method. It was shown that the defect structure of peak 1 is based on colloid centers, $Ti^{+4}-3O_2^-$ -mixed centers and U_1 -centers.

Key Words: Thermoluminescence, LiF:Mg,Ti, TLD-100, defect structure, U-centers.



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