



Influence of defects on dielectric properties of $(\text{CH}_3\text{NH}_3)_5\text{Bi}_2\text{X}_{11}$ ($\text{X} = \text{Cl}, \text{Br}$) crystals.

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Influence of defects on ferroelectric properties of the $(\text{CH}_3\text{NH}_3)_5\text{Bi}_2\text{X}_{11}$ ($\text{X} = \text{Cl}, \text{Br}$) crystals in the vicinity of ferro-paraelectric phase transition was investigated. γ -irradiation of both crystals insignificantly shifts T_c toward higher temperature. The substitution of chlorine atoms by iodine ones in the $(\text{CH}_3\text{NH}_3)_5\text{Bi}_2\text{Cl}_{11}$ crystal drastically reduces the magnitude of the dielectric permittivity but does not influence on the temperature behaviour of the spontaneous polarization. PACS numbers: 77.70.+a

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<http://www.ifpan.edu.pl>