



Dilatometric study of the ferroelectric phase transition in $(\text{CH}_3\text{NH}_3)_5\text{Bi}_2\text{Br}_{11}$.

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Recently a new crystal was grown: namely $(\text{CH}_3\text{NH}_3)_5\text{Bi}_2\text{C}_{111}$ with promising dielectric properties [1]. This compound crystallizes at room temperature in orthorhombic symmetry with space group $\text{Pca}2_1$. With increasing temperature crystals transform from the ferroelectric phase to the paraelectric phase at about $T_C = 308 \text{ K}$. The phase transition is the second order with a peak of electric permittivity 5×10^3 [1]. The authors of Ref. [2] paid attention to similarity of the dielectric properties of this crystal and isomorphic $(\text{CH}_3\text{NH}_3)_5\text{Bi}_2\text{Br}_{11}$ crystal, for which dilatometric anomaly was shown in [3].

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