

Ferroelectricity in $(\text{CH}_3\text{NH}_3)_5\text{Bi}_2\text{Br}_{11}$ crystals.

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The dielectric and pyroelectric properties of $(\text{CH}_3\text{NH}_3)_5\text{Bi}_2\text{Br}_{11}$ single crystals were measured in the range 10–315 K revealing the existence of a new ferroelectric phase transition at 77K. The continuous phase transition is accompanied by a large increase of the spontaneous polarization from $2 \times 10^{-2} \text{ Cm}^{-2}$ at 85 K to $3 \times 10^{-2} \text{ Cm}^{-2}$ at 30K. The electric permittivity along the c-axis shows a λ -type maximum with $\epsilon_{c,\text{max}}(77\text{K}) \cong 56$.

Adres publiczny

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