

Specific heat and pyroelectric coefficient behaviour of $(\text{CH}_3\text{NH}_3)_5\text{Bi}_2\text{Cl}_{11}$ ferroelectric crystal.

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The specific heat, pyroelectric coefficient and spontaneous polarization of a $(\text{CH}_3\text{NH}_3)_5\text{Bi}_2\text{Cl}_{11}$ single crystal have been measured between 105 K and 330 K. Two anomalies appear: a diffuse one at 160 K corresponding to a ferro-ferroelectric transition and another one at 307 K corresponding to a second order ferro-paraelectric transition. Data are compared with the predictions deduced from the Devonshire free-energy expansion.

Adres publiczny

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