# Brillouin scattering studies of ferroelectric tris(dimethylammonium)nonabromodiantimonate(III).

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Streszczenie

Structural phase transitions at 164 and 228 K of the layered perovskite crystal $[(CH_3)_2NH_2]_3Sb_2Br_9$ (DMABA) are investigated by the Brillouin scattering method. The longitudinal phonon mode propagating perpendicular to the layers shows a pronounced temperature dependence of its velocity, not connected directly with any of the transitions. The acoustic phonon modes propagating in the layer exhibit clear anomalies near the ferro-to-paraelectric phase transition at 164 K.

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