# Far-infrared reflectivity spectra of two ferroelectric crystals $(CH_3NH_3)_5Bi_2Cl_{11}$ and $(CH_3NH_3)_5Bi_2Br_{11}$.

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Study of far-infrared (5-400 $cm^{-1}$) reflectivity spectra of two isomorphous ($Pca2_1$) ferroelectric compounds: $(CH_3NH_3)_5Bi_2Cl_{11}$ and $(CH_3NH_3)_5Bi_2Cl_{11}$ has been performed in the temperature range 90-330 K. The ferroelectric type transitions occurring at 307 K and 312 K in the mentioned compounds, respectively, manifest itself as continuous, order-disorder transitions. Estimations of low-frequency dielectric parameters from infrared reflectivity spectra are in accordance with the data obtained from dielectric measurements.

Słowa kluczowe

Far-infrared reflectivity, ferroelectric, phase transition, (CH3NH3)5Bi2Cl11), (CH3NH3)5Bi2Cl11

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