



Brillouin scattering studies of ferroic $[\text{NH}_2(\text{CH}_3)_2]_3\text{Sb}_2\text{Cl}_9$ (DMACA).

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Streszczenie

High resolution Brillouin spectroscopy has been used to study the elastic properties of ferroic (i.e. ferroelectric and ferroelastic) , otherwise known as DMACA. The experiments covered the temperature range from 170 to 300 K, and included the ferroelectric phase transition at about 240 K. The temperature dependence of Brillouin modes has been observed for the longitudinal phonons propagating in the four directions [100], [010], [101] and [111]. The relaxation times of the order parameter were determined and different types of coupling between polarization and strain are discussed.

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