Infrared studies on structural phase transitions in $[NH_2(CH_3)_2]_3Sb_2Br_9$ and $[NH_2(CH_3)_2]_3Sb_2I_9$.

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Infrared spectra of $[NH_2(CH_3)_2]_3Sb_2Br_9$ and $[NH_2(CH_3)_2]_3Sb_2I_9$ have been investigated in detail during their phase transitions. The studies show that the vibrational state of dimethylammonium cations change markedly through the transitions. The results obtained for $[NH_2(CH_3)_2]_3Sb_2Br_9$ in the ferroelectric phase are explained in terms of the pseudo-spin—phonon coupling.

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