Phase transitions in $[C_5H_5NH]_6Bi_4Cl_{18}$ crystals.

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Streszczenie

(C5H5NH)(6)Bi4Cl18 (PCB) crystals were found to undergo two structural phase transitions at 154 K of second and at 122 K of first order type. The phase transitions were studied by means of differential scanning calorimetry and dielectric dispersion studies. Two temperature-dependent relaxators in the microwave frequency region contribute to the electric permittivity near the phase transition at 154 K. The phase transitions in the PCB crystals are classified as an "order-disorder" type and are connected with a reorientational motion of the pyridinium cations.