

INVESTIGATIONS OF LATTICE DYNAMICS  
IN FERROELECTRIC CRYSTALS  
(CH<sub>3</sub>)<sub>2</sub>CHNH<sub>3</sub>CdBr<sub>3</sub>

*D. F. Baisa, I. G. Vertegel, E. D. Chesnokov,  
O. I. Ovcharenko, Z. Chapla*

Institute of Physics, Nat. Acad. Sci. of Ukraine  
(46, Nauky Prosp., Kyiv 03028, Ukraine)

S u m m a r y

The Br<sup>79</sup> NQR spectra in (CH<sub>3</sub>)<sub>2</sub>CHNH<sub>3</sub>CdBr<sub>3</sub> crystals in the temperature range 10 - 300 K are investigated. The anomalous behaviour of the temperature dependences of Br<sup>79</sup> NQR frequencies at near temperatures of the ferroelectric phase transition was discovered. On the basis of the analysis of the temperature dependences of NQR frequencies and the spin-lattice relaxation time, the conclusions, concerning the peculiarities of the phase transition for those crystals, are made.