NQR $^{127}$I Spectroscopy of Layered Inorganic Compounds Intercalated with Aromatic Amines*

T. A. Babushkina and I. V. Seryukova

State Research Centre of RF-Institute of Biophysics, Ministry of Health of Russia, Moscow, Russia, Krasnoyarsk State Agricultural University, Krasnoyarsk, Russia

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NQR spectroscopy was used to study the intercalating influence on the iodine electric field gradient of lead(II) and cadmium(II) iodides. We used pyridine, piperidine, aniline and quinoline, as guest substances. In the intercalates the NQR frequencies and their dependence on temperature in different crystalline phases were studied. The peculiarities of chemical bonds and crystal structures were discussed.

Reprint requests to Prof. T. A. Babushkina; Fax: 7-095-190-35-90.