

## SEMICONDUCTOR DETECTORS FOR SPECTROSCOPY OF GAMMA-RADIATION

**P.G. Litovchenko, L.I. Barabash, V.K. Dubovoy, V.F. Lastovetsky, T.I. Kibkalo,  
N.N. Kolychev, I.A. Polivtsev, V.I. Kochkin, A.P. Litovchenko, S.P. Batyuta,  
V.I. Varnina, O.I. Fishchuk**

The development of noncooling semiconductor detectors of gamma-radiation on the base of silicon compensated by lithium was carried out. The testing of detectors on sources gamma-radiation  $^{137}\text{Cs}$  and  $^{60}\text{Co}$  indicated that their registration efficiency was 2 – 3 %, sensitivity  $\sim 0,03$  imp/s/Bk. Energy resolution of gamma-detectors was 25–31 keV.