

THE POSSIBILITY OF USING THE MULTIPLICITY SPECTROMETER FOR DETERMINATION OF FISSIONABLE NUCLEI CONTENT

**Yu. G. Shchepkin, V. I. Slisenko, Ye. A. Pavlenko, P. I. Bulan,
V. S. Prokopenko, Yu. S. Stryuk, T. A. Kostyuk**

The possibility of using the multiplicity spectrometer for determination of fissionable nuclei content by means of active and indestructible method when research sample is irradiated by thermal neutrons from reactor are presented. The calculated vales of the minimum relative weight concentration of the fissionable nuclei and maximum weight of the research sample matrix equal $3 \cdot 10^{-8}$ and 170 g correspondingly. The results of the calculations are confirmed by preliminary of measurements when the natural uranium and silicon are irradiated by neutrons.