

RESEARCH OF POSSIBILITY OF GAMMA-SPECTROMETRY OF COALS IN FIELD ENVIRONMENT

**O. A. Bezshyyko, S. A. Karpenko, I. A. Maliuk, O. I. Nasvit,
V. M. Pryymak, E. E. Petrosian, K. A. Tyschenko**

By the method of Monte Carlo apparatus gamma-spectrums were generated for the model of coal mass averaged on physical and chemical properties and detectors located in it on the base of scintillation crystals of NaI and LaBr₃. As a result of processing of the generated gamma-spectrums using of the standard programs possibilities of gamma-spectrometry method of measuring of natural radio-activity of coals in field environment were defined.