

**DEVELOPMENT OF METHOD STRUCTURE DETERMINATION OF SOIL
CONTAMINATION BY ^{137}Cs OF OBJECT “UKRYTTYA” SITE UNDER
THE RESULTS OF GAMMA-SPECTROMETRIC INVESTIGATIONS**

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Structure analysis method of soil contamination by ^{137}Cs under the results of spectrometric investigations of gamma-radiation in boreholes passing through radioactively contaminated soils was developed. For practical implementation, the field spectrometric complex was created and required methodical measurements were performed at experimental models as on study of gamma-radiation characteristics. Mathematical model of borehole was proposed adequate to experimental models for calculations using MCNP4 software code. The results of practical application during radioactive contamination structure analysis of soils making geological section of local zone of Object “Ukryttya” were stated.