

VYUŽITIE VEĽKOOBJEMOVÝCH PROPORCIONÁLNYCH DETEKTOROV NA DETEKCIU ZDROJOV ŽIARENIA GAMA

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ABSTRAKT

Húšťava Š. & Halada L.: **Utilisation of large-volume proportional detectors for gamma radiation sources measurement**

The experiment results with imitated iron scrap on the railway carriage in metal works Podbrezová are described in this paper. The experiment results show that the given measuring system is suitable for the control of the radioactive contamination of the iron scrap. Next, there is a comparison of the sensitivity of the measuring system built-up on the large-volume proportional detectors with other measuring systems built-up on the plastic, or solid scintillators NaJ, CsJ and HPGe carried out. In the conclusion of the paper there is pointed out the possibility of the utilisation of the measuring system built-up on the proportional detectors not only for the detection (as it was used up to now using the plastic and solid scintillators a. o.), but also for the localisation of radioactive sources in