

EXAMINATION OF EXPRESS DETERMINATION OF ^{226}Ra IN BUILDINGS MATERIALS USING GAMMA SPECTROMETRY

Miroslav JEŠKOVSKÝ, Ivan SÝKORA, Karol HOLÝ

Department of Nuclear Physics and Biophysics, Faculty of Mathematics, Physics and Informatics, Comenius University, Mlynská dolina F1, 842 48 Bratislava, e-mail: m.jeskovsky@gmail.com

ABSTRACT

In the article is presented the proposal of express method for evaluation of radium concentration in building material. The method is based on estimation function of time dependence of achievement of equilibrium radon daughter products radioactivity with the ^{226}Ra . The obtained results from one selected sample of building material (porous concrete brick) show, that estimation of radium concentration on acceptable confidence level is possible obtain during some days.

Key words: ^{226}Ra , buildings materials, express method, daughter products