

SIMULATION OF ELECTRON DOSE DISTRIBUTION IN TISSUE EQUIVALENT LAYERS OF MULTILAYER IONIZATION CHAMBER

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Depth distribution of ionization losses by electron beam from the output channel at angle of 270° of LUE-8 accelerator is measured. A four-layer ionization chamber in current mode is used for measurements [1]. Ionization chamber air layers imitates layers which equivalent to biological tissue if taking into account correction factor. Method for testing of various radiation-protective material elements of at LUE-8 accelerator up to 8 MeV is proposed and studied. Depth-dose distribution is obtained.

S. Potashev, Yu. Burmistrov, S. Zuyev, S. Karaevsky, E. Konobeevski, V. Razin and A. Afonin A four-layer gaseous detector allowing to measure the energy of charged particles. Journal of Physics: Conference Series 1390 (2019) 012120, doi:10.1088/1742-6596/1390/1/012120

The speaker is a student or young scientist

No

Section

1. Nuclear technology and methods in medicine, radioecology

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