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The effect of collimation on the shape of the Compton continuum and backscattering peaks

CELIK N.¹, KAYA S.¹, CEVIK U.²

¹*Gümüşhane University, Department of Physics Engineering, Gümüşhane, Turkey*

²*Karadeniz Technical University, Department of Physics, Trabzon, Turkey*

The shape of the Compton continuum and backscattering peaks were determined by Monte Carlo simulation for the energy value of 662 keV from ¹³⁷Cs radioactive point source. First the source was put in front of the detector window without any collimator (isotropic source), then the collimator was introduced with the diameter values ranging from 2 mm to 20 mm. The effect was shown by overlapping the peaks.