## A program for dead time correction at gamma-rays detectors

<sup>1</sup> SALİH MUSTAFA KARABIDAK Gümüşhane University Physics Engineering

Determination of compensating for count losses for the correctness of analyses in spectrometric analysis of qualitative and quantitative use of x-gamma ray detectors are of importance. These counting losses in spectrometry are due to paralyzable and non-paralyzable system dead time. In this work, a new method is suggested for compensate for counting losses resulting from this factors. For this purpose, a computer program was developed. Experimental studies were performed to test of this program. As a result, it was seen to provide an effective correction. it is coded a computer program including original dead time correction, peak search, graphics module, program interface, a report module with the Delphi program compiler.

**Keywords:** Gamma Rays, Gamma Rays Detectors, Counting Loss, Dead Time, Computer Programs

<sup>&</sup>lt;sup>2</sup> ÖZKAN BİNGÖL Gümüşhane University Department of Software Engineering

<sup>&</sup>lt;sup>3</sup> SELIM KAYA Gümüşhane University Physics Engineering