

DETERMINATION OF PROPER PEAKING TIME FOR ULTRA- LEGE DETECTOR AT MEDIUM ENERGIES

S.M. KARABIDAK, U. ÇEVİK and S.KAYA

*Karadeniz Technical University Department of Physics, Trabzon,
Turkey, salihm@ktu.edu.tr*

Reducing count losses and pile-up pulse effects in quantitative and qualitative analysis is necessary for accuracy of analysis. Therefore, the optimum peaking time for particular detector systems is important. For this purpose, pure Se and Zn elements were excited by 59.5 keV γ -rays from a 50 mCi ^{241}Am annular radioactive source in this study. The characteristic x-rays emitted from pure Se and Zn elements were detected by using an ultra low energy Ge (Ultra-LEGe) detector connecting Tennelec TC 244 spectroscopy amplifier at different peaking time modes. Overall pulse widths were determined by HM 203-7 oscilloscope connecting amplifier. The proper peaking time for ultra low energy germanium detector (Ultra-LEGe) is determined about 4 μs .



TÜRK FİZİK DERNEĞİ 25. ULUSLARARASI FİZİK KONGRESİ



Türk Fizik Derneği
1950
Turkish Physical Society

25 - 29 Ağustos 2008
Bodrum Belediyesi Nurok Kültür Merkezi
Bodrum / Türkiye

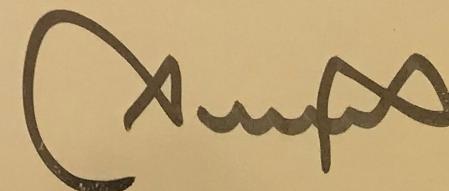
KATILIM BELGESİ

Selim Kaya

25 - 29 Ağustos 2008 tarihleri arasında Türk Fizik Derneği tarafından
düzenlenen TFD 25. Uluslararası Fizik Kongresi'ne katılımınızdan dolayı
teşekkürlerimizi sunarız.



Dr. Yeşim ÖKTEM
TFD-25 Organizasyon Komitesi Başkanı



Prof. Dr. Baki AKKUŞ
Türk Fizik Derneği Başkanı