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Beta Spectrometers with Surface Barrier Detector and Plastic Scintillator: Applications to  
 $^{90}\text{Sr}$ ,  $^{204}\text{Tl}$ ,  $^{210}\text{Pb}$  and  $^{14}\text{C}$

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**Abstract:** In this work, a comparison of responses between a spectrometer using Si Surface Barrier Detector (Si SBD) and a spectrometer using Plastic Scintillator (PS) is given. Experimental pulse height spectra of beta particles from  $^{90}\text{Sr}$ ,  $^{204}\text{Tl}$ ,  $^{210}\text{Pb}$  and  $^{14}\text{C}$  pure beta sources has been obtained separately. By comparing obtained spectra, the priority of obtaining the beta spectra among them is discussed. This work is related to the spectral response of beta spectrometers to pure beta sources.



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