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**DETECTION THRESHOLD OF A LIQUID SCINTILLATION
SPECTROMETER AND ITS APPLICATION TO
LIQUID SCINTILLATION COUNTING***

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The detection threshold of a liquid scintillation spectrometer is found to be 2.30 ± 0.14 keV by measuring standardized ^3H , ^{14}C , ^{35}S and ^{45}Ca samples with a commercially available liquid scintillation spectrometer. The obtained detection threshold is compared with published data in order to assess the accuracy and reproducibility of the method. Based on the results, a modified integral counting method is proposed extrapolating the integral pulse-height spectrum to the detection threshold.

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