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Determination of Air Luminescence Spectra for Alpha-Emitters with Liquid Scintillation Spectrometers

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Air luminescence spectra have been measured for ^{210}Po , ^{238}U and ^{241}Am with two commercially available liquid scintillation spectrometers. Since the measured end-point of the air luminescence spectra is approx. 18 keV, they can be determined by liquid scintillation counting in the ^3H detection region. The average counting efficiencies measured with both counting systems were found to be 33.3% and 33.7%, respectively. The air luminescence effect on liquid scintillation counting of gaseous α -emitters is mentioned.

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