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Title: EFFICIENCY CALIBRATION OF HPGE DETECTOR IN FAR AND CLOSE GEOMETRIES

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Abstract: The absolute total and full-energy peak(FEP) efficiencies of a high purity germanium (HPGe) photon detector are measured in the energy range from 40 keV to 1500 keV. The functional parameters are fitted to the calibration points from 14 long-lived standard sources (I-129, Am-241, Cd-109, Co-57, Ce-139 , Cs-137, Mn-54, Zn-65, Co-60, Na-22, Ba-133, Eu-152, Eu-154 and Ho-166m) within an accuracy better than the quoted uncertainty of the calibration sources. The efficiencies in far and close geometries are compared.