

In this work, the energies and intensities of gamma rays in the radioactive decay of ^{83}Rb were measured. The intermediate product, $^{83\text{m}}\text{Kr}$, is an important calibration source for several experiments. For the measurements, germanium (HPGe) and silicon (SiLi) detectors were used and calibrated with the radioactive standards ^{55}Fe , ^{133}Ba , ^{152}Eu and ^{241}Am . Part of the work was also to measure the shielding caused by the emitters housings and the escape of $^{83\text{m}}\text{Kr}$ gas from the sample before its decay. The DEIMOS program was used for the primary processing of the measurements.