

ENERGIES OF SEVERAL GAMMA-TRANSITIONS FROM THE $^{184\text{m.g}}\text{Re}$ AND $^{177\text{m.g}}\text{Lu}$ DECAY

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The differences energies between some internal-conversion electron line pairs from the $^{184\text{m.g}}\text{Re}$ and $^{177\text{m.g}}\text{Lu}$ decay were measured by means of $\pi\sqrt{2}$ magnetic β -spectrometer. The energies in ^{184}Re and ^{184}W transitions were determined with high precision on the basis of experimental results and values of the reference γ -ray energies. The data on the energies in ^{177}Lu and ^{177}Hf transitions compatibility analysis was performed.

Keywords: radioactivity, ^{183}Re , $^{184\text{m.g}}\text{Re}$, $^{177\text{m.g}}\text{Lu}$, magnetic spectrometers, measurements E(ce), energy of levels.