E4 E0 Admixture in the $2^{+\prime} \rightarrow 2^{+}$ Transition in ^{194}Pt

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In the Os—Pt region, several measurements were performed to establish the $E0$ components in equi-spin transitions. The conversion coefficient measurements indicated that small multipole mixtures would be present and therefore the e^{-}—γ directional correlation method was considered to be appropriate.

We analyzed $2^{+\prime} \rightarrow 2^{+}$ transition of the ^{194}Pt from the decay of ^{194}Ir using an electron-gamma correlation stand[1] with a magnetic lens and a NaI detector.

In order to establish the multipolarities in the $2^{+} \rightarrow 2^{+}$ transition we measured the correlation 293γ—$328\,e_K$ as well as $293\,e_K$—328γ. Since the former is not sensitive to the $E0$ component we used it for $M1$ component determination and found two possible values: 0.28% and 80%. Former was accepted since it agreed with the conversion coefficient. The $293\,e_K$—$328\,\gamma$ correlation yielded one value for the $E0$ component, $q = 0.03^{+0.1}_{-0.05}$, showing that it is also negligible.

References

1) A. Kukoč and L. Marinkov, Nucl. Instr. Meth. 37 (1965) 77.

E5 The Electric Monopole Component in the $2^{+\prime} \rightarrow 2^{+}$ Transition in ^{192}Pt

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E6 Internal Conversion Studies of Double Decay Processes in ^{114}In

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E7 The 371 keV 2^{+}—2^{+} Transition in ^{190}Os Investigated by Electron-Electron and Gamma-Electron Directional Correlations

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