

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

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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  $e^{-}-\gamma$  directional correlation method was considered to be appropriate.

We analyzed  $2^{+'} \rightarrow 2^{+}$  transition of the  $^{194}\text{Pt}$  from the decay of  $^{194}\text{Ir}$  using an electron-gamma correlation stand<sup>1)</sup> with a magnetic lens and a NaI detector.

In order to establish the multipolarities in the  $2^{+} \rightarrow 2^{+}$  transition we measured the correlation  $293\gamma-328 e_K$  as well as  $293 e_K-328\gamma$ . 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  $2^{+'} \rightarrow 2^{+}$  Transition in  $^{192}\text{Pt}$** 

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**E6 Internal Conversion Studies of Double Decay Processes in  $^{114}\text{In}$** 

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**E7 The 371 keV  $2^{+} \rightarrow 2^{+}$  Transition in  $^{190}\text{Os}$  Investigated by Electron-Electron and Gamma-Electron Directional Correlations**

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