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## Magnetic Moment Measurements of $98\text{Y}$ Isomers Using the TDPAC Method at Lohengrin

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The neutron-rich  $A\sim 100$  region is known for a sudden change in nuclear shape deformation from nearly spherical to highly-deformed as  $A$  goes from 97 to 99. The most severe change (as measured by the electric quadrupole deformation parameter) seems to occur in the region centered on  $98\text{Y}$ . To better understand this phenomenon, the magnetic moments (another probe of nuclear deformation) of the  $2^-$  and  $4^-$  isomeric states of  $98\text{Y}$  have been measured using the Time-Differential Perturbed Angular Correlation (TDPAC) method on data collected from the Lohengrin fission fragment spectrometer at Institut Laue-Langevin. The results of the measurements have been compared to two theoretical calculations, the Interacting Boson Fermion Model (IBFFM) and the Complex Excited Vampir Model (EXVAM), which both compare somewhat favorably.

### Type of contribution

Regular Abstract

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