

Laser spectroscopy measurements of 151-175Tm. On behalf of the COLLAPS collaboration

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High resolution laser spectroscopy has been used to study the atomic hyperfine structure of thulium isotopes ($Z=69$) leading towards the proton emitter 147Tm . This technique results in a model independent measurement of the nuclear magnetic dipole moments, electric quadrupole moments and change in mean-square charge radii, with respect to the stable 169Tm . Collinear laser spectroscopy measurements were performed using the COLLAPS experiment based at ISOLDE, CERN. These measurements were taken over a series of three beamtimes, resulting in 25 isotopes being measured, with many of the properties being measured for the first time. The status of the data analysis will be presented.