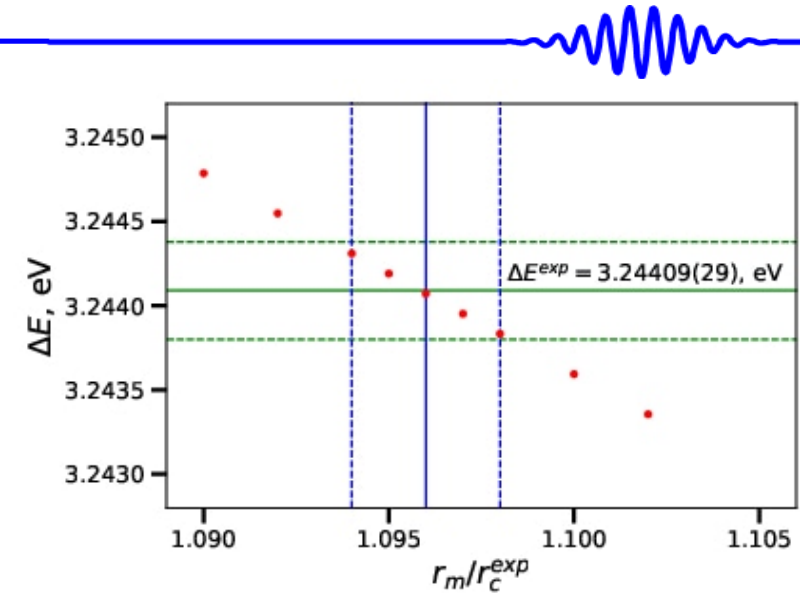


# P5732: Calculation of the correction on the magnetization distribution in the nucleus to the hyperfine structure of heavy atoms

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- Uniform distribution and Woods-Saxon models of nuclear magnetization distribution were considered
- The hyperfine structure constants were calculated for 6P1/2 and 6P3/2 states of neutral thallium
- The magnetic moments of short-lived thallium isotopes were determined



Nucleus	Barzakh et al.*	This work**	This work
$^{187}\text{Tl} m$	3.707(22)	3.710(22)(2)	3.687(38)(2)
$^{189}\text{Tl} m$	3.756(22)	3.758(22)(2)	3.764(42)(2)
$^{191}\text{Tl} m$	3.781(22)	3.783(22)(2)	3.785(24)(2)
$^{193}\text{Tl} m$	3.824(22)	3.827(22)(2)	3.841(25)(2)

