

$^{154}\text{Eu}(\text{p},\text{p}')$ 1979La11

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	N. Nica	NDS 200,2 (2025)	22-Aug-2022

$E(\text{p})=12$ MeV, $p(\theta)$ measured at up to 12 angles in magnetic spectrometer with FWHM ≈ 9 keV on ^{154}Eu target produced by n capture in enriched ^{153}Eu followed by isotope separation with chemical separation in ion source.

 ^{154}Eu Levels

<u>E(level)</u>	<u>J^π</u> [†]
0.0 [‡]	3 ⁻
80.8 [‡] 8	4 ⁻
181.7 [‡] 11	5 ⁻
300.7 [‡] 15	6 ⁻
439.6 [‡] 20	7 ⁻
596 [‡] 4	8 ⁻

[†] From $p(\theta)$ and expected structure of the gs band. These are the same as the Adopted Values.

[‡] Band(A): $K^\pi=3^-$ band.

 $^{154}\text{Eu}(\text{p,p}') \quad 1979\text{La11}$ Band(A): $K^\pi=3^-$ band8⁻ 5967⁻ 439.66⁻ 300.75⁻ 181.74⁻ 80.83⁻ 0.0 $^{154}_{63}\text{Eu}_{91}$