
 $^{154}\text{Sm}(^{208}\text{Pb},\text{X}\gamma),(^{176}\text{Yb},\text{X}\gamma)$ **1999As05**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. J. Martin	NDS 114, 1497 (2013)	31-Aug-2013

$E(^{208}\text{Pb})=1$ GeV, $E(^{176}\text{Yb})=949$ MeV. Measured $E\gamma$, $\gamma\gamma$ using GAMMASPHERE with an array of 55 high-purity Compton-suppressed germanium detectors.

 ^{152}Sm Levels

E(level)	J^π [†]
0	0^+
120.9	2^+
364.7	4^+
704.6	6^+
1121.8	8^+
1605.0	10^+
2144.0	12^+
2731.9	14^+
3360.8	16^+

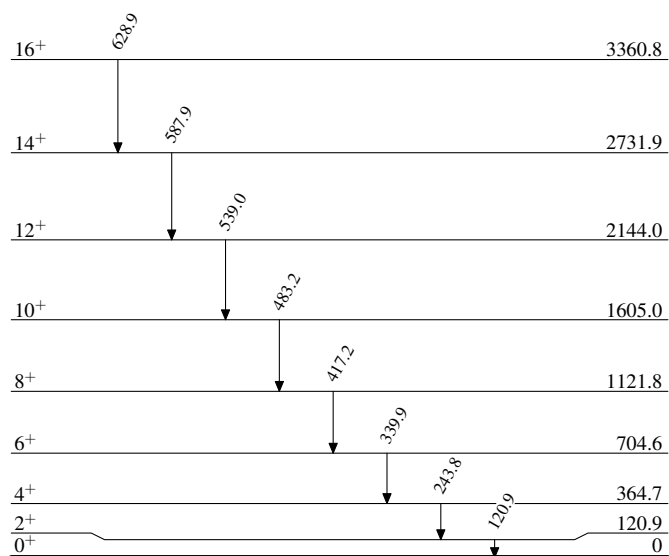
[†] From Adopted Levels.

 $\gamma(^{152}\text{Sm})$

E_γ	$E_i(\text{level})$	J^π_i	E_f	J^π_f
120.9	120.9	2^+	0	0^+
243.8	364.7	4^+	120.9	2^+
339.9	704.6	6^+	364.7	4^+
417.2	1121.8	8^+	704.6	6^+
483.2	1605.0	10^+	1121.8	8^+
539.0	2144.0	12^+	1605.0	10^+
587.9	2731.9	14^+	2144.0	12^+
628.9	3360.8	16^+	2731.9	14^+

$^{154}\text{Sm}(^{208}\text{Pb},\text{X}\gamma),(^{176}\text{Yb},\text{X}\gamma)$ 1999As05

Level Scheme



$^{152}_{62}\text{Sm}_{90}$