

$^{176}\text{Lu}(\text{d,t})$ 1971Mi01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 102, 719 (2004)	1-Jun-2004

Enriched ^{176}Lu targets. E(d)=12MeV. Triton spectra measured at $\theta=75^\circ$, 95° and 130° . Magnetic spectrograph. FWHM \approx 17 keV (estimated by evaluator).

 ^{175}Lu Levels

E(level)	J^π [†]	Comments
0 [‡]	7/2 ⁺	
114 [‡]	2 9/2 ⁺	
254 [‡]	3 11/2 ⁺	
412 [‡]	3 13/2 ⁺	
598 [‡]	5 15/2 ⁺	
804? [‡]	5 17/2 ⁺	
1401 [#]	2 (19/2 ⁺)	
1511 [@]	3 (9/2 ⁺)	May contain contribution from Yb.
1590 ^{&}	2 (13/2 ⁺)	
1622 [#]	2 (21/2 ⁺)	
1644 [@]	2 (11/2 ⁺)	
1732 ^a	2 (15/2 ⁺)	
1785 ^{&}	2 (15/2 ⁺)	
1799 [@]	5 (13/2 ⁺)	
1818	4	
1870	5	
1908 ^a	4 (17/2 ⁺)	
1981 [@]	3 (15/2 ⁺)	
2207	3	
2527	4	

[†] From Adopted Levels for g.s. band, otherwise from cross sections predicted by the Nilsson model.

[‡] 7/2[404] rotational band.

[#] Tentative assignment: K=19/2⁺, Configuration=((π 7/2(404))(ν 7/2(514))(ν 5/2(512))).

[@] Tentative assignment: K=9/2⁺, Configuration=((π 7/2(404))(ν 7/2(514))(ν 5/2(512))).

[&] Tentative assignment: K=13/2⁺, Configuration=((π 7/2(404))(ν 7/2(514))(ν 1/2(521))).

^a Tentative assignment: K=15/2⁺, Configuration=((π 7/2(404))(ν 7/2(514))(ν 1/2(521))).