

$^{175}\text{Lu}(\text{d},\text{p})$ 1991KI02

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 107, 791 (2006)	15-Sep-2005

Target: ^{175}Lu ($J^\pi=7/2^+$), $E=20$ MeV. Measured scattered protons at $\theta=45^\circ$. Detector: magnetic spectrometer, FWHM=3-4 keV.
 Other: 1967St14.

 ^{176}Lu Levels

1967St14 observed proton peaks to levels at 316 3, 404 2, 543 2, 627 3, 818 1, and 840 1 ($J^\pi=(3^-)$), not reported by 1991KI02.

E(level)	$J^\pi^\dagger$	Comments
122.9 4	1^-	
183.9 3	8^-	
235.9 3	3^-	
299.3 14	3^+	
305.2 6	2^-	
338.6 7	1^+	
372.7 3	4^+	
387.1 6	1^-	
425.1 7	8^+	
435.8 6		E(level): possible doublet (433.0 (2^-) and 437.3 (5^-)).
450.6 6	3^+	
463.9 4	4^-	
487.9 3		E(level): possible doublet (487.6 (5^+) and 487.8 (8^+)).
504.7 3	3^-	
532.8 3	4^+	
593.4 7	4^-	
615.1 3	9^+	
637.5 5	1^-	
650.4 9	5^+	
658.4 2	3^-	
681.7 6	9^+	
688.2 3	2^-	
711.1 10	6^-	
722.6 3	4^-	
751.8 2	4^-	
765.3 3	$(6)^-$	
788.4 2	4^-	
826.9 5	10^+	
835.2 3	$(5)^-$	
860.1 8	4^-	
869.5 2		E(level): possible doublet (868.1 (5^-) and 870.0 (5^-)).
895.4 8	10^+	
908.1 6	$(4)^-$	
921.7 2	$(5)^-$	
941.8 3	$(7)^-$	
958.8 23	3^-	
971.8 23	$(6)^-$	
988.1 19	5^-	
1000.4 23	$(6)^-$	
1029.6 3	$(2)^-$	
1054.1 9	11^+	
1062.7 4	$(2^-, 5^-)$	
1071.7 3		
1100.4 3	$(3)^-$	

† From Adopted Levels.