

$^{136}\text{Xe}(\text{d},\text{p})$ **1968Mo21**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 108,2173 (2007)	1-Oct-2006

Measured: E, $\sigma(\theta)$.

[1991Kr12](#) studied (d,p) reaction in inverse kinematics $d(^{136}\text{Xe},p)^{137}\text{Xe}$ and are in good agreement with results of [1968Mo21](#) in $^{136}\text{Xe}(d,p)$.

In both experiments E(level) determinations are of low precision, thus association with levels seen in other experiments is not obvious for $E(\text{level}) > 1410$ keV.

Other: [1966Sc13](#). ^{137}Xe Levels

E(level)	J^π [†]	L	S [‡]	E(level)	J^π [†]	L	S [‡]	E(level)	J^π [†]	L	S [‡]
0.0	$7/2^-$	3	0.70	1840	$5/2^+$	2	0.20	2800	$5/2^-$	3	0.26
550	$3/2^-$	1	0.41	1930				2920			
910	$1/2^-$	1	0.13	2030				3030			
1120	$9/2^-$	5	0.31	2110				3200			
1200	$5/2^-$	3	0.24	2170				3320			
1410	$5/2^-$	3	0.16	2300	$3/2^-$		0.20	3480			
1610				2430	$(1/2^-)$	(1)	0.22	3610			
1700				2620	$(1/2^-)$	(1)	0.04				

[†] From [1968Mo21](#) based on J^π determinations in $N=83$, $^{139}\text{Ba}67\text{Ve}02$.

[‡] Calculated with given J value ([1991Kr12](#)).