

$^{25}\text{Al}$        $Z = 13$        $N = 12$       adopted link      ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 200.528 ( 0.000) MeV

Qbeta+ = 4.277 ( 0.000) MeV

	Energy T	J+	J-	J-other	T1/2
25AL 1	0.000	5/2+			1 7.183 S 12
25AL 2	0.452	1/2+			2 2.29 NS 4
25AL 3	0.945	3/2+			3 4.3 PS 11
25AL 4				1.612 (7/2)+	4 12 FS 2
25AL 5	1.789	5/2+			5 393 FS 36
S-p =	2.271 ( 0.000)				
25AL 6	2.485	1/2+			6 4 FS 2
25AL 7	2.673	3/2+			7 4 FS 3
25AL 8	2.720	7/2+			8 201 FS 14
25AL 9			3.062 3/2-		9 1.3 KEV 4
25AL 10				3.424 (9/2)+	10 9.0 FS 14
25AL 11			3.695 7/2-		11 17 FS 8
25AL 12			3.823 1/2-		12 36 KEV 7
25AL 13	3.859	5/2+			13 0.1 KEV
25AL 14				4.026 (9/2,5/2)+	14 18 FS 3
25AL 15	4.192	3/2+			15 0.5 KEV GT
25AL 16				4.516 (9/2)+	16 6.5 EV GT
25AL 17	4.582	5/2+			17
25AL 18				4.906 (7/2)+	18 10 KEV LT
25AL 19				5.045	19 10 KEV LT
25AL 20				5.068	20 4 KEV LT
25AL 21				5.083	21 50 KEV AP
25AL 22				5.101	22 4 KEV LT
25AL 23				5.116	23 47 KEV 5
25AL 24				5.232	24
25AL 25	5.285	1/2+			25 185 KEV
25AL 26				5.526	26 18 KEV AP
25AL 27				5.597 (3/2,5/2,7/2)+	27 55 KEV 20
25AL 28				5.686	28
25AL 29	5.785	1/2+			29 15 KEV AP
25AL 30				5.804 (3/2,5/2,7/2)+	30
25AL 31				6.063	31
25AL 32	6.122	3/2+			32 51 KEV 2
25AL 33				6.170 (3/2,5/2,7/2)+	33
25AL 34				6.322 7/2	34 0.4 KEV GT
25AL 35			6.385 3/2-		35 15 KEV LT
25AL 36				6.409	36 58 KEV 7

25AL 37		6.517	3/2+						37	64 KEV	16
25AL 38						6.620	3/2+,5/2+,7/2+		38		
25AL 39		6.650	5/2+						39	58 KEV	9
25AL 40					6.734	7/2-			40	195 KEV	39
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25AL 41		6.740	1/2+						41	152 KEV	11
25AL 42						6.770			42		
25AL 43		6.829	5/2+						43	58 KEV	9
25AL 44									44		
25AL 45					6.895	7/2-	(3/2,5/2,7/2)+		45	53 KEV	4
25AL 46		6.909	3/2+						46		
25AL 47						6.944			47	104 KEV	10
25AL 48						7.022			48		
25AL 49					7.055	3/2-			49	616 KEV	20
25AL 50		7.118	3/2+						50	117 KEV	4
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25AL 51					7.150	5/2-			51	20 KEV	6
25AL 52								7.183	52		
25AL 53		7.240	5/2+						53	19 KEV	4
25AL 54					7.297	3/2-			54	66 KEV	6
25AL 55					7.409	5/2-			55	12 KEV	LT
25AL 56								7.422	56		
25AL 57								7.588	57		
25AL 58								7.646	58	50 KEV	15
25AL 59					7.684	7/2-	(3/2,5/2,7/2)+		59	21 KEV	3
25AL 60		7.717	3/2+						60	230 KEV	20
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25AL 61								7.770	61	340 KEV	15
25AL 62								7.819	62	209 KEV	20
25AL 63								7.848	63	20 KEV	8
25AL 64					7.892	5/2-			64	94 KEV	15
25AL 65		7.901	3/2 5/2+						65	0.105 KEV	18
25AL 66								7.936 3/2	66	35 KEV	10
25AL 67		7.970	3/2 3/2+						67	1.30 KEV	14
25AL 68								8.026	68	20 KEV	10
25AL 69								8.077	69	15 KEV	7
25AL 70					8.089	5/2-	(7/2,9/2)+		70	40 KEV	9
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25AL 71								8.186	71	40 KEV	10
25AL 72								9.073	72		

S-p = 2.271 ( 0.000)-----  
S-n = 16.938 ( 0.000)-----  
S-2p = 13.964 ( 0.000)-----  
S-2n = 31.807 ( 0.000)-----  
S-alpha= 9.156 ( 0.000)-----  
  
S+p = -5.514 ( 0.000)  
S+n = -11.365 ( 0.000)

S+2p = -6.321 ( 0.009)  
S+2n = -24.424 ( 0.000)  
S+alpha = -10.462 ( 0.000)

gap p = -3.243 ( 0.000)  
gap n = 5.573 ( 0.000)  
gap 2p = 7.643 ( 0.009)  
gap 2n = 7.383 ( 0.000)  
gap alpha = -1.306 ( 0.000)