

$^{69}\text{Se}$        $Z = 34$        $N = 35$       adopted link      ENSDF link

Based on ensdf\_240402 (Apr 2024), and mass evaluation from 2020

BE = 586.756 ( 0.001) MeV

Qbeta+ = 6.677 ( 0.032) MeV

	Energy T	J+	J-	J-other	T1/2
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69SE 1			0.000	1/2-	1 27.4 S 2
69SE 2			0.039	5/2-	2 2.0 US 2
69SE 3			0.129	3/2-	3
69SE 4			0.290	3/2-	4
69SE 5	0.574	9/2+			5 960 NS 23
69SE 6			0.713	5/2-	6
69SE 7			0.915	7/2-	7
69SE 8			1.101	9/2-	8
69SE 9			1.123	7/2-	9
69SE 10			1.134	5/2-	10
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69SE 11			1.194	9/2-	11
69SE 12	1.250	11/2+			12
69SE 13	1.361	9/2+			13
69SE 14	1.653	13/2+			14
69SE 15	2.023	13/2+			15
69SE 16			2.079	9/2-	16
69SE 17			2.159	(9/2-)	17
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S-alpha=	2.381 ( 0.003)				
69SE 18			2.399	11/2-	18
69SE 19			2.434	11/2-	19
69SE 20	2.492	15/2+			20
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69SE 21	2.580	13/2+			21
69SE 22			2.618	13/2-	22
69SE 23	2.899	17/2+			23
69SE 24			2.935	13/2-	24
69SE 25			2.980	13/2-	25
69SE 26			3.206	15/2-	26
69SE 27	3.226	17/2+			27
69SE 28	3.498	17/2+			28
69SE 29	3.576	17/2+			29
69SE 30			3.618	(17/2-)	30
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69SE 31			3.674	19/2-	31
69SE 32			3.723	17/2-	32
69SE 33	4.005	(19/2+)			33
69SE 34	4.255	21/2+			34
69SE 35			4.272	21/2-	35

69SE	36				4.389	23/2-		36
69SE	37				4.436	23/2-		37
S-p	=		4.829 ( 0.002)		-----			
69SE	38		5.257 (25/2+)					38
69SE	39				5.387	(25/2-)		39
69SE	40		5.438 25/2+					40
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69SE	41		5.830 25/2+					41
69SE	42				6.149	(27/2-)		42
69SE	43				6.467	(29/2-)		43
69SE	44		6.477 (29/2+)					44
69SE	45		6.568 29/2+					45
69SE	46				6.889	(29/2-)		46
69SE	47		7.104 (29/2+)					47
69SE	48				7.685	(33/2-)		48
69SE	49		8.035 (33/2+)					49
69SE	50				8.045	(33/2-)		50
-----								
69SE	51				8.059	(31/2-)		51
S-2p	=		8.339 ( 0.005)		-----			
69SE	52		8.493 (33/2+)					52
69SE	53				9.008	(37/2-)		53
69SE	54		9.714 (37/2+)					54
69SE	55				9.957	(37/2-)		55
S-n	=		10.317 ( 0.002)		-----			
69SE	56				10.415	(41/2-)		56
69SE	57		11.382 (41/2+)					57
69SE	58		13.363 (45/2+)					58

S-p = 4.829 ( 0.002) -----  
S-n = 10.317 ( 0.002) -----  
S-2p = 8.339 ( 0.005) -----  
S-2n = 26.019 ( 0.024) -----  
S-alpha= 2.381 ( 0.003) -----

S+p = -2.788 ( 0.016)  
S+n = -13.567 ( 0.002)  
S+2p = -4.199 ( 0.024)  
S+2n = -22.854 ( 0.003)  
S+alpha = -2.542 ( 0.007)

gap p = 2.041 ( 0.016)  
gap n = -3.250 ( 0.003)  
gap 2p = 4.140 ( 0.024)  
gap 2n = 3.164 ( 0.024)  
gap alpha = -0.161 ( 0.007)