

^{73}Se $Z = 34$ $N = 39$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 630.834 (0.007) MeV

Qbeta+ = 2.725 (0.008) MeV

	Energy T	J+	J-	J-other	T1/2

73SE 1	0.000	9/2+			1 7.15 H 9
73SE 2			0.026 3/2-		2 39.8 M 17
73SE 3			0.026 (3/2-)		3
73SE 4				0.091 (1/2,3/2)	4
73SE 5			0.151 5/2-		5 222 PS 33
73SE 6	0.192	5/2+			6 0.97 NS 21
73SE 7	0.295	7/2+			7
73SE 8			0.400 (5/2-)		8
73SE 9				0.427 (1/2-,3/2)	9
73SE 10			0.505 7/2-		10 4.7 PS 5

73SE 11				0.566 (1/2,3/2)	11
73SE 12	0.575	5/2(+)			12
73SE 13	0.639	9/2+			13
73SE 14				0.641 (1/2-,3/2)	14
73SE 15				0.645	15
73SE 16			0.685 (5/2-)		16
73SE 17	0.725	7/2(+)			17
73SE 18				0.790 (1/2-,3/2)	18
73SE 19			0.791 5/2-		19
73SE 20			0.805 9/2-		20 2.50 PS 14

73SE 21				0.940 (1/2-,3/2)	21
73SE 22	0.943	11/2+			22 0.97 PS 21
73SE 23	0.971	13/2+			23 0.88 PS 7
73SE 24	0.999	11/2+			24
73SE 25				1.022 (1/2-,3/2)	25
73SE 26				1.092	26
73SE 27				1.092 (9/2)	27
73SE 28			1.180 11/2-		28 1.52 PS 14
73SE 29			1.230 (9/2-)		29
73SE 30				1.295	30

73SE 31			1.356 9/2-		31
73SE 32				1.551 (1/2,3/2)	32
73SE 33			1.553 13/2-		33 1.08 PS 14
73SE 34				1.564	34
73SE 35				1.565 (11/2)	35
73SE 36	1.573	13/2+			36 1.3 PS 4

73SE 37						1.619 (1/2,3/2)	37			
73SE 38						1.699	38			
73SE 39		1.863		15/2+			39	0.14	PS	7
73SE 40						1.883 (11/2-)	40			

73SE 41						1.933	41	1.7	PS	4
73SE 42						2.002 15/2-	42	0.49	PS	14
73SE 43						2.010 (13/2-)	43			
73SE 44		2.014		17/2+			44	0.18	PS	4
73SE 45		2.041		(13/2+)			45			
73SE 46						2.090 13/2-	46			
73SE 47		2.210		(15/2+)			47	0.76	PS	21
73SE 48						2.267	48			
73SE 49						2.433 17/2-	49	0.44	PS	8
73SE 50						2.486	50			

73SE 51						2.626	51			
73SE 52		2.638		(17/2+)			52	0.45	PS	14
73SE 53						2.868 (17/2-)	53			
73SE 54		2.873		(19/2+)			54	0.56	PS	14
73SE 55						2.950 (19/2-)	55	0.20	PS	6
73SE 56						3.004 (17/2-)	56	0.76	PS	21
73SE 57						3.098 19/2-	57	1.8	PS	6
73SE 58		3.171		(21/2+)			58	0.139	PS	35
73SE 59						3.203	59	0.28	PS	14
73SE 60						3.303 (15/2,19/2)	60	0.42	PS	14

73SE 61						3.440 (21/2-)	61	0.125	PS	21
S-alpha=		3.552 (0.008)	-----							
73SE 62						3.834	62			
73SE 63						3.854	63			
73SE 64		3.913		(23/2+)			64			
73SE 65						4.012 (23/2-)	65	0.104	PS	14
73SE 66		4.386		(25/2+)			66	0.062	PS	21
73SE 67						4.589 (25/2-)	67	0.062	PS	21
73SE 68						4.944	68			
73SE 69		4.952		(27/2+)			69			
73SE 70						5.219 (27/2-)	70	0.069	PS	14

73SE 71		5.636		(29/2+)			71	0.118	PS	14
73SE 72						5.853 (29/2-)	72	0.055	PS	14
73SE 73						5.890	73			
73SE 74						6.526 (31/2-)	74	0.069	PS	14
73SE 75		7.014		(33/2+)			75	0.090	PS	7
73SE 76						7.232 (33/2-)	76	0.139	PS	14
S-p =		7.287 (0.008)	-----							
73SE 77						7.954 (35/2-)	77	0.236	PS	21
S-n =		8.431 (0.008)	-----							
73SE 78		8.530		(37/2+)			78			
73SE 79						8.754 (37/2-)	79			

73SE 80				9.532	(39/2-)	80

73SE 81		10.214	(41/2+)			81
73SE 82				10.467	(41/2-)	82

S-p	=	7.287	(0.008)	-----
S-n	=	8.431	(0.008)	-----
S-2p	=	12.899	(0.007)	-----
S-2n	=	21.224	(0.008)	-----
S-alpha	=	3.552	(0.008)	-----

S+p	=	-4.350	(0.009)
S+n	=	-12.057	(0.007)
S+2p	=	-10.674	(0.011)
S+2n	=	-20.085	(0.007)
S+alpha	=	-4.367	(0.008)

gap p	=	2.937	(0.013)
gap n	=	-3.627	(0.011)
gap 2p	=	2.225	(0.013)
gap 2n	=	1.139	(0.011)
gap alpha	=	-0.815	(0.011)