

^{74}Br $Z = 35$ $N = 39$ adopted link ENSDF link

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

BE = 635.184 (0.006) MeV

Qbeta+ = 6.925 (0.006) MeV

	Energy T	J+	J-	J-other	T1/2
74BR 1				0.000 (0-)	1 25.4 M 3
74BR 2				0.010 (1-)	2
74BR 3				0.014 4(+)	3 46 M 2
74BR 4				0.073 (2-)	4 0.5 NS LE
74BR 5				0.086 (3-)	5 13.3 NS 4
74BR 6				0.090 (1-)	6 0.5 NS LE
74BR 7				0.133 (1,2-)	7
74BR 8				0.179 (1)	8
74BR 9				0.181 (2-)	9 0.5 NS LE
74BR 10				0.201 (3-)	10
74BR 11				0.202 (4-)	11 0.7 NS 3
74BR 12				0.202 5(+)	12 114 PS 21
74BR 13	0.213	1+			13
74BR 14				0.238 (4-)	14
74BR 15				0.239 (1)	15
74BR 16				0.272	16
74BR 17				0.296 (1,2-)	17
74BR 18	0.307	1+			18
74BR 19				0.329 (4-)	19
74BR 20				0.340 (3-)	20
74BR 21				0.371 (5-)	21 277 PS 35
74BR 22				0.380 (4-)	22
74BR 23				0.390 (1)	23
74BR 24				0.395 (4-)	24
74BR 25	0.397	6+			25 35.4 PS 35
74BR 26				0.406 (1,2-)	26
74BR 27				0.407	27
74BR 28				0.424 (5-)	28
74BR 29				0.435 (1,2-)	29
74BR 30				0.443 (4)	30
74BR 31				0.463 (5-)	31
74BR 32				0.469 (1,2-)	32
74BR 33				0.486 (6-)	33 0.7 NS 4
74BR 34				0.535 (1)	34
74BR 35				0.543 (5-)	35
74BR 36				0.588 (1-,2)	36
74BR 37				0.593 (5-)	37

74BR 38				0.609	(1+)	38		
74BR 39				0.613	(1)	39		
74BR 40				0.620	(6-)	40	18.7 PS	28

74BR 41				0.663	(5+)	41		
74BR 42				0.670	7(+)	42	9.2 PS	14
74BR 43				0.701	(1+)	43		
74BR 44				0.736	(6-)	44		
74BR 45				0.803	(6+)	45		
74BR 46				0.816	(5-)	46		
74BR 47				0.820	(6-)	47		
74BR 48				0.826	8(+)	48	23.6 PS	21
74BR 49				0.832	(1)	49		
74BR 50				0.862	(7-)	50	12.5 PS	7

74BR 51				0.922	(6-)	51		
74BR 52				0.970	(1+)	52		
74BR 53				0.978	(1)	53		
74BR 54				0.990	(7-)	54		
74BR 55				1.049	(7-)	55		
74BR 56				1.164	(7-)	56		
74BR 57				1.170	(7+)	57		
74BR 58				1.174	9(+)	58	1.66 PS	35
74BR 59				1.197	(8+)	59		
74BR 60				1.202	(7-)	60		

74BR 61				1.273	(8-)	61		
74BR 62				1.384	(8-)	62		
74BR 63				1.485	(8+)	63		
74BR 64				1.488	(9+)	64		
74BR 65				1.489	(8-)	65		
74BR 66				1.634	(8-)	66		
74BR 67				1.660	(10+)	67	0.82 PS	10
74BR 68				1.688	(9-)	68	0.42 PS	14
74BR 69				1.729	(9-)	69		
74BR 70				1.893	(9-)	70		

74BR 71				1.983	(9+)	71		
74BR 72				2.000	(9-)	72		
74BR 73				2.068	11(+)	73	0.326 PS	35
74BR 74				2.134	(10+)	74		
74BR 75				2.140	(10-)	75	0.49 PS	12
74BR 76				2.263	(10+)	76		
74BR 77				2.332	(10-)	77		
74BR 78				2.441	(10+)	78		
74BR 79				2.506	(10-)	79		
74BR 80				2.616	(11-)	80	0.291 PS	21

74BR 81				2.766	12(+)	81	0.146 PS	21
74BR 82				2.833	(11-)	82		

74BR	83				3.156	(12-)	83	0.28	PS	7
74BR	84				3.177	13(+)	84	0.139	PS	15
74BR	85				3.308	(12+)	85			
S-alpha= 3.379 (0.006)-----										
74BR	86				3.447	(12+)	86			
74BR	87				3.684	(13-)	87	0.173	PS	15
74BR	88				4.097	(14+)	88	0.090	PS	7
74BR	89				4.341	(14-)	89	0.15	PS	LT
S-p = 4.350 (0.009)-----										
74BR	90				4.492	(15+)	90	0.055	PS	15

74BR	91				4.909	(15-)	91	0.14	PS	LT
74BR	92				5.615	(16+)	92	0.16	PS	LT
74BR	93				5.962	(17+)	93	0.14	PS	LT
74BR	94				7.614	(19+)	94			

S-p = 4.350 (0.009)-----
S-n = 9.714 (0.009)-----
S-2p = 11.636 (0.007)-----
S-2n = 22.369 (0.006)-----
S-alpha= 3.379 (0.006)-----

S+p = -6.324 (0.010)
S+n = -11.890 (0.007)
S+2p = -9.769 (0.006)
S+2n = -21.144 (0.011)
S+alpha = -4.072 (0.007)

gap p = -1.975 (0.014)
gap n = -2.176 (0.011)
gap 2p = 1.867 (0.009)
gap 2n = 1.225 (0.012)
gap alpha = -0.693 (0.009)