

^{76}Br $Z = 35$ $N = 41$ [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 656.327 (0.009) MeV

Qbeta+ = 4.963 (0.009) MeV

	Energy T	J+	J-	J-other	T1/2
76BR 1			0.000	1-	1 16.2 H 2
76BR 2				0.045 (2)-	2 1.13 NS 6
76BR 3				0.103 (4)+	3 1.31 S 2
76BR 4				0.151 (LE 3)	4
76BR 5				0.212 (3-)	5 111 PS 28
76BR 6				0.245 (5)+	6 76 PS 14
76BR 7				0.252 (2)+	7 2.18 NS 9
76BR 8				0.302 (4-)	8 0.52 NS 7
76BR 9	0.316	1+			9
76BR 10				0.317 (2+)	10
76BR 11	0.355	1+			11 0.5 NS 2
76BR 12				0.357 (6)+	12 118 PS 21
76BR 13				0.363 (4-)	13 59 PS 10
76BR 14				0.426	14 45 PS 17
76BR 15				0.446 0+,1+	15
76BR 16	0.452	1+			16 0.4 NS 1
76BR 17				0.467 (5-)	17 242 PS 35
76BR 18				0.487 (0,1)	18
76BR 19				0.496 (0,1,2)	19
76BR 20				0.505 (LE 3)	20
76BR 21				0.528 (LE 3)	21
76BR 22				0.548 (LE 3)	22
76BR 23				0.584 (5-)	23
76BR 24			583.5+X		24 0.8 NS 2
76BR 25				0.595 (7)+	25 21 PS 4
76BR 26	0.616	1+			26
76BR 27				0.688 (6-)	27 73 PS 24
76BR 28				0.688 (8)+	28 69 PS 21
76BR 29				0.761	29
76BR 30				0.815 (0,1)	30
76BR 31	0.868	1+			31
76BR 32				0.882	32 2.4 PS 4
76BR 33	0.898	1+			33
76BR 34	0.937	1+			34
76BR 35				0.988 J	35 17 PS 6
76BR 36				1.025 (7-)	36 7.6 PS 2
76BR 37	1.048	1+			37

76BR 38				1.120	(9)+	38	0.59 PS	6
76BR 39				1.338	(8-)	39	5.5 PS	14
76BR 40				1.511	(10)+	40	0.49 PS	6

76BR 41				1.610		41		
76BR 42				1.748	(J+2)	42		
76BR 43				1.825	(9-)	43	0.76 PS	21
76BR 44				1.993	(11+)	44	0.21 PS	4
76BR 45				2.080		45		
76BR 46				2.198		46		
76BR 47				2.219	(10-)	47	0.69 PS	21
76BR 48				2.577		48		
76BR 49				2.626	(12+)	49		
76BR 50				2.690	(J+4)	50		

76BR 51				2.737	(11-)	51		
76BR 52				3.108	(13+)	52	0.20 PS	2
76BR 53				3.118		53		
76BR 54				3.286	(12-)	54		
76BR 55				3.707	(J+6)	55		
76BR 56				3.835		56		
76BR 57				4.000	(14+)	57		
76BR 58				4.434	(15+)	58	0.11 PS	3
S-alpha=	4.484	(0.010)	-----					
76BR 59				4.900	(0+)	59		
76BR 60				5.400	(2+)	60		

S-p	=	5.409	(0.009)	-----				
76BR 61				5.550	(16+)	61		
76BR 62				5.930	(17+)	62	0.055 PS	28
76BR 63				6.100	(0+,2+,4+)	63		
76BR 64				6.500	(2+)	64		
76BR 65				6.900	(4+)	65		
76BR 66				7.200	(3-)	66		
76BR 67				7.303	(18+)	67		
76BR 68				7.585	(19+)	68	0.06 PS	LT
S-n	=	9.253	(0.010)	-----				
76BR 69				9.415	(21+)	69		

S-p	=	5.409	(0.009)	-----				
S-n	=	9.253	(0.010)	-----				
S-2p	=	14.007	(0.010)	-----				
S-2n	=	21.144	(0.011)	-----				
S-alpha=	4.484	(0.010)	-----					

S+p	=	-7.169	(0.010)					
S+n	=	-11.017	(0.010)					
S+2p	=	-11.224	(0.010)					
S+2n	=	-19.306	(0.010)					

S+alpha = -4.311 (0.010)

gap p = -1.761 (0.013)

gap n = -1.764 (0.014)

gap 2p = 2.783 (0.014)

gap 2n = 1.838 (0.015)

gap alpha = 0.173 (0.014)