^{77}Br $Z = 35$ $N = 42$ adopted link ENSDF link

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

BE = 667.344 (0.003) MeV
Qbeta+ = 1.365 (0.003) MeV

	Energy	T	J+		J-		J-other		T1/2	
77BR 1					0.000	3/2-		1	57.04 H	12
77BR 2	0.106		9/2+					2	4.28 M	10
77BR 3	0.130		5/2+					3	9.3 NS	3
77BR 4					0.162	5/2-		4	498 PS	35
77BR 5							0.167 (3/2)-	5		
77BR 6					0.227	3/2-		6		
77BR 7							0.276 (3/2)+	7	90 PS	20
77BR 8							0.337 1/2-,3/2-	8		
77BR 9							0.418 7/2(+)	9		
77BR 10					0.425	5/2-		10		
77BR 11					0.471	3/2-		11		
77BR 12					0.576	7/2-		12	9.8 PS	15
77BR 13							0.640 (13/2)+	13	9.8 PS	6
77BR 14							0.649 (5/2)-	14		
77BR 15							0.716 5/2(-)	15		
77BR 16							0.771 (1/2+)	16		
77BR 17							0.781 (7/2-)	17		
77BR 18							0.782 (9/2)+	18	3.0 PS	6
77BR 19							0.791 (9/2)-	19	4.3 PS	6
77BR 20							0.831 1/2-,3/2-	20		
77BR 21							0.865 (3/2+)	21		
77BR 22							0.887 1/2-,3/2-	22		
77BR 23							0.948 (11/2+)	23		
77BR 24							0.967 (7/2+)	24		
77BR 25							0.970 (5/2)+	25		
77BR 26							1.024 (5/2)+	26		
77BR 27							1.094 (11/2+)	27		
77BR 28							1.098 (5/2+,7/2)	28		
77BR 29							1.123 (5/2-,7/2-)	29		
77BR 30							1.128 (1/2,3/2)	30		
77BR 31							1.139	31		
77BR 32							1.240 7/2+,9/2+	32		
77BR 33							1.274 (11/2)-	33	2.8 PS	7
77BR 34							1.276 5/2-,7/2-	34		
77BR 35							1.287 (9/2-)	35		
77BR 36							1.305 (13/2)+	36	2.8 PS	7
77BR 37							1.363 (5/2-,7/2-)	37		

77BR	38			1.393	1/2-,3/2-	38	
77BR	39			1.462	(1/2+)	39	
77BR	40			1.483	(17/2)+	40	0.42 PS 14
77BR	41			1.484	(7/2+,9/2+)	41	
77BR	42			1.539	(13/2-)	42	
77BR	43			1.554		43	
77BR	44			1.576	(5/2-)	44	
77BR	45			1.603		45	
77BR	46			1.645	(13/2+)	46	
77BR	47			1.651	(3/2+,5/2+)	47	
77BR	48			1.716		48	
77BR	49			1.746	7/2+,9/2+	49	
77BR	50			1.747	(15/2+)	50	
77BR	51			1.774	3/2+,5/2+	51	
77BR	52			1.789		52	
77BR	53			1.827	(15/2+)	53	
77BR	54			1.855	(1/2+)	54	
77BR	55			1.879	(5/2-,7/2-)	55	
77BR	56			1.908	7/2+,9/2+	56	
77BR	57			1.999	1/2-,3/2-	57	
77BR	58			2.019	3/2+,5/2+	58	
77BR	59			2.022	(15/2-)	59	
77BR	60			2.047	(17/2)+	60	0.2 PS LT
77BR	61			2.129	(3/2)-	61	
77BR	62			2.150	1/2-,3/2-	62	
77BR	63			2.172	(3/2+,5/2+)	63	
77BR	64			2.194	(3/2,5/2,7/2)	64	
77BR	65			2.224	1/2-,3/2-	65	
77BR	66			2.248	(3/2+,5/2+)	66	
77BR	67			2.275	(1/2-,3/2-)	67	
77BR	68			2.297	(3/2+,5/2+)	68	
77BR	69			2.340	(17/2-)	69	0.2 PS LT
77BR	70			2.344	(3/2,5/2,7/2+)	70	
77BR	71			2.551	(21/2)+	71	0.16 PS 4
77BR	72			2.648	(19/2+)	72	
77BR	73			2.793	(19/2-)	73	
77BR	74			2.927	(19/2+)	74	
77BR	75			2.932	(17/2-)	75	
77BR	76			3.037	(21/2+)	76	
77BR	77			3.201	(21/2-)	77	
77BR	78			3.220	(19/2-)	78	
77BR	79			3.610	(21/2-)	79	
77BR	80			3.643	(23/2-)	80	
77BR	81			3.728	(23/2+)	81	
77BR	82			3.730	(23/2-)	82	

```
 77BR  83 |                 |                 |   3.775     (25/2+)          83  0.118 PS  35
 77BR  84 |                 |                 |   4.150     (23/2-)          84
 77BR  85 |                 |                 |   4.216     (25/2+)          85
 77BR  86 |                 |                 |   4.247     (25/2-)          86  0.21 PS   6
S-alpha=   4.707 ( 0.005)-------------------------------------------------------------------------
 77BR  87 |                 |                 |   4.903     (27/2-)          87
 77BR  88 |                 |                 |   4.981     (27/2+)          88
 77BR  89 |                 |                 |   5.149     (29/2+)          89  0.042 PS  21
S-p    =   5.272 ( 0.003)-------------------------------------------------------------------------
 77BR  90 |                 |                 |   5.517     (29/2-)          90  0.111 PS  35
-----------                                                                 -----------------
 77BR  91 |                 |                 |   5.528     (29/2+)          91
 77BR  92 |                 |                 |   6.297     (31/2-)          92
 77BR  93 |                 |                 |   6.411     (31/2+)          93
 77BR  94 |                 |                 |   6.692     (33/2+)          94  0.069 PS  LT
 77BR  95 |                 |                 |   6.979     (33/2-)          95  0.14 PS   LT
 77BR  96 |                 |                 |   7.876     (35/2-)          96
 77BR  97 |                 |                 |   8.029     (35/2+)          97
 77BR  98 |                 |                 |   8.401     (1/2-)           98
 77BR  99 |                 |                 |   8.421     (37/2+)          99
 77BR 100 |                 |                 |   8.580     (37/2-)         100
-----------                                                                 -----------------
 77BR 101 |                 |                 |   8.608     (3/2-,5/2-)     101
 77BR 102 |                 |                 |   8.922     (3/2)-          102
 77BR 103 |                 |                 |   9.092     (5/2)+          103
 77BR 104 |  9.364     1/2+ |                 |                             104
 77BR 105 |                 |                 |   9.430     (3/2)-          105
 77BR 106 |  9.488     1/2+ |                 |                             106
 77BR 107 |                 |                 |   9.609     (39/2-)         107
 77BR 108 |                 |                 |   9.632     (5/2)+          108


S-p    =   5.272 ( 0.003)-------------------------------------------------------------------------
S-n    =  11.017 ( 0.010)-------------------------------------------------------------------------
S-2p   =  14.779 ( 0.003)-------------------------------------------------------------------------
S-2n   =  20.271 ( 0.005)-------------------------------------------------------------------------
S-alpha=   4.707 ( 0.005)-------------------------------------------------------------------------

S+p       =  -8.232 ( 0.003)
S+n       =  -8.289 ( 0.005)
S+2p      = -12.146 ( 0.003)
S+2n      = -18.976 ( 0.003)
S+alpha   =  -4.647 ( 0.006)

gap p     =  -2.961 ( 0.004)
gap n     =   2.728 ( 0.011)
gap 2p    =   2.633 ( 0.005)
gap 2n    =   1.295 ( 0.006)
gap alpha =   0.060 ( 0.007)
```