

^{82}Br $Z = 35$ $N = 47$ adopted link ENSDF link

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

BE = 711.965 (0.001) MeV
 Qbeta- = 3.093 (0.001) MeV
 Qbeta+ = 0.095 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
82BR 1			0.000	5-	1 35.282 H 7
82BR 2			0.046	2-	2 6.13 M 5
82BR 3				0.075 (1)+	3 7.2 NS 8
82BR 4				0.291 (3)-	4
82BR 5				0.363 (2)+	5
82BR 6				0.377 (6)-	6 0.2 NS LT
82BR 7				0.420 (2)	7
82BR 8				0.475 (4)-	8
82BR 9				0.541 (2+,3+)	9
82BR 10				0.627 (2,3+)	10
82BR 11				0.638	11
82BR 12				0.641 (3+)	12
82BR 13				0.689 (1-,2-,3-)	13
82BR 14				0.760 (1+,2,3+)	14
82BR 15				0.762	15
82BR 16				0.764 (1)+	16
82BR 17				0.792 (5)	17
82BR 18				0.823	18
82BR 19				0.847 (1+)	19
82BR 20				0.887	20
82BR 21				0.911 (4,5+)	21
82BR 22				0.935	22
82BR 23				0.968 (6)+	23
82BR 24				0.971 (2,3+)	24
82BR 25				0.988	25
82BR 26				1.008	26
82BR 27				1.022	27
82BR 28				1.059 (1,2,3)	28
82BR 29				1.069 (7)+	29 0.14 NS LT
82BR 30				1.083	30
82BR 31				1.093	31
82BR 32				1.110 (1-,2,3)	32
82BR 33				1.140	33
82BR 34				1.155	34
82BR 35				1.179 (2,3)	35
82BR 36				1.187	36

82BR 37						1.217				37
82BR 38						1.227				38
82BR 39						1.233				39
82BR 40						1.244				40

82BR 41						1.261	(8)+			41 0.2 NS LT
82BR 42						1.276	(1,2,3+)			42
82BR 43						1.366				43
82BR 44						1.386	(+)			44
82BR 45						1.432				45
82BR 46						1.478				46
82BR 47		1.484	1+							47
82BR 48						1.497	(-)			48
82BR 49						1.535				49
82BR 50						1.548				50

82BR 51						1.629				51
82BR 52						1.650	-			52
82BR 53						1.680	(2-)			53
82BR 54						1.721				54
82BR 55						1.743	1-,2-			55
82BR 56						1.766	(2-)			56
82BR 57						1.794	(9)+			57
82BR 58						1.807	-			58
82BR 59						1.830				59
82BR 60						1.866				60

82BR 61						1.897				61
82BR 62						1.916				62
82BR 63						1.942				63
82BR 64						1.955	(-)			64
82BR 65						2.026				65
82BR 66		2.087	1+							66
82BR 67						2.112				67
82BR 68		2.136	1+							68
82BR 69						2.213	(1+,2-)			69
82BR 70						2.243	(10+)			70

82BR 71		2.272	1+							71
82BR 72		2.317	1+							72
82BR 73		2.351	1+							73
82BR 74		2.498	1+							74
82BR 75		2.543	3+							75
82BR 76		2.712	1+							76
82BR 77		2.801	1+							77
82BR 78		2.876	1+							78
82BR 79		2.940	1+							79
82BR 80		3.028	1+							80

82BR 81		3.062	1+							81

82BR 82		3.097	3+					82
82BR 83		3.172	1+					83
82BR 84		3.256	1+					84
82BR 85		3.296	1+					85
82BR 86		3.333	1+					86
82BR 87		3.420	1+					87
82BR 88		3.455	1+					88
82BR 89		3.507	3+					89
82BR 90		3.579	1+					90

82BR 91		3.623	1+					91
82BR 92					3.688	(1+,2-)		92
82BR 93		3.720	1+					93
82BR 94		3.788	1+					94
82BR 95		3.856	1+					95
82BR 96		3.951	1+					96
82BR 97		4.033	1+					97
82BR 98		4.099	1+					98
82BR 99		4.170	1+					99
82BR 100		4.209	1+					100

82BR 101		4.272	1+					101
82BR 102		4.317	1+					102
82BR 103		4.365	1+					103
82BR 104		4.391	1+					104
82BR 105		4.433	1+					105
82BR 106		4.511	1+					106
82BR 107					4.554	(1+,2-)		107
82BR 108		4.601	1+					108
82BR 109		4.632	1+					109
82BR 110					4.689	(1+,2-)		110

82BR 111		4.772	1+					111
82BR 112					4.779	2-		112
82BR 113		4.869	1+					113
82BR 114		4.910	1+					114
82BR 115		4.971	1+					115
82BR 116		5.008	1+					116
82BR 117		5.066	1+					117
82BR 118		5.110	1+					118
82BR 119		5.211	1+					119
82BR 120		5.250	1+					120

82BR 121		5.279	1+					121
82BR 122		5.326	1+					122
82BR 123		5.371	1+					123
82BR 124		5.416	1+					124
82BR 125		5.446	1+					125
82BR 126		5.491	1+					126
82BR 127		5.519	1+					127

82BR 128		5.571	1+					128
82BR 129		5.614	1+					129
82BR 130		5.641	1+					130

82BR 131		5.671	1+					131
82BR 132						5.712	(1+,2-)	132
82BR 133		5.727	1+					133
82BR 134		5.761	1+					134
82BR 135						5.810	(1+,2-)	135
82BR 136		5.866	1+					136
82BR 137		5.908	1+					137
82BR 138		5.947	1+					138
S-alpha=		7.107	(0.010)	-----				
S-p	=	8.399	(0.001)	-----				
S-n	=	7.593	(0.001)	-----				
82BR 139						9.676		139

S-p	=	8.399	(0.001)	-----				
S-n	=	7.593	(0.001)	-----				
S-2p	=	19.862	(0.003)	-----				
S-2n	=	17.752	(0.001)	-----				
S-alpha=		7.107	(0.010)	-----				

S+p	=	-9.781	(0.001)					
S+n	=	-9.586	(0.004)					
S+2p	=	-16.838	(0.002)					
S+2n	=	-16.427	(0.026)					
S+alpha	=	-7.673	(0.001)					

gap p	=	-1.382	(0.002)					
gap n	=	-1.993	(0.004)					
gap 2p	=	3.024	(0.004)					
gap 2n	=	1.325	(0.026)					
gap alpha	=	-0.567	(0.010)					