

$^{83}\text{Br}$        $Z = 35$        $N = 48$       adopted link      ENSDF link

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

BE = 721.551 ( 0.004) MeV

Qbeta- = 0.977 ( 0.004) MeV

	Energy T	J+	J-	J-other	T1/2
83BR 1			0.000	3/2-	1 2.374 H 4
83BR 2			0.357	5/2-	2
83BR 3				0.799 (5/2,7/2)-	3
83BR 4			0.867	7/2-	4
83BR 5				0.872 (1/2-,3/2-)	5
83BR 6				0.988 1/2-,3/2-	6
83BR 7				1.031 (3/2)-	7
83BR 8				1.054 1/2-,3/2-	8
83BR 9	1.092	9/2+			9 4.1 NS 1
83BR 10				1.114	10
83BR 11				1.238 (5/2,7/2-)	11
83BR 12				1.353 (5/2)+	12
83BR 13				1.421 (7/2-,5/2+)	13
83BR 14				1.423 +	14
83BR 15			1.439	9/2-	15 1.5 PS 4
83BR 16				1.660 1/2-,3/2-	16
83BR 17			1.701	3/2-	17
83BR 18	1.702	13/2+			18 21 PS 4
83BR 19				1.704 +	19
83BR 20				1.804 (7/2)	20
83BR 21				1.810 (7/2+)	21
83BR 22				1.916 1/2(-),3/2	22
83BR 23				2.051 1/2-,3/2-	23
83BR 24				2.059 (5/2+,7/2,9/2+)	24
83BR 25				2.073 (5/2-,7/2-)	25
83BR 26			2.127	11/2-	26 1.2 PS 4
83BR 27	2.134	11/2+			27 0.3 PS 2
83BR 28				2.240 (1/2-,3/2-)	28
83BR 29				2.338 (11/2+)	29
83BR 30				2.398 9/2+,7/2+	30
83BR 31				2.532	31
83BR 32				2.647 (7/2)+	32
83BR 33				2.694 (7/2)+	33
83BR 34				2.730 1/2-,3/2-	34
83BR 35				2.738 (9/2)+	35
83BR 36				2.760 (1/2-,3/2-)	36
83BR 37	2.766	17/2+			37 1.4 PS 2

83BR 38						2.777	(7/2,9/2)	38		
83BR 39		2.789	13/2+					39	1.0 PS	4
83BR 40						2.810	1/2-,3/2-	40		
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83BR 41				2.812	13/2-			41		
83BR 42						2.947	9/2+,11/2+	42		
83BR 43						2.953	3/2+,5/2+	43		
83BR 44						2.994		44		
83BR 45						3.024		45		
83BR 46						3.035	3/2+,5/2+	46		
83BR 47						3.051	15/2(+)	47		
83BR 48						3.069	(19/2-)	48	0.7 US	1
83BR 49						3.091	1/2-,3/2-	49		
83BR 50		3.131	1/2+					50		
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83BR 51						3.135	(17/2)	51		
83BR 52						3.138	9/2+,11/2+	52		
83BR 53						3.260		53		
83BR 54				3.334	15/2-			54		
83BR 55						3.369		55		
83BR 56						3.419	(15/2+)	56		
83BR 57						3.441		57		
83BR 58						3.534		58		
83BR 59						3.548		59		
83BR 60						3.614		60		
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83BR 61						3.668		61		
83BR 62						3.749		62		
83BR 63						3.805		63		
83BR 64						3.875		64		
83BR 65						3.967		65		
83BR 66						4.016		66		
83BR 67						4.049		67		
83BR 68						4.098		68		
83BR 69						4.160		69		
83BR 70						4.194		70		
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83BR 71						4.222	(21/2+)	71	0.3 PS	1
83BR 72						4.583		72		
83BR 73						5.119		73		
83BR 74						5.391		74		
83BR 75						5.635		75		

S-p = 8.709 ( 0.004)-----  
S-n = 9.586 ( 0.004)-----  
S-2p = 21.058 ( 0.005)-----  
S-2n = 17.179 ( 0.004)-----  
S-alpha= 7.803 ( 0.007)-----

S+p = -10.715 ( 0.004)  
S+n = -6.841 ( 0.026)  
S+2p = -17.732 ( 0.004)  
S+2n = -15.704 ( 0.005)  
S+alpha = -8.009 ( 0.004)

gap p = -2.006 ( 0.005)  
gap n = 2.746 ( 0.026)  
gap 2p = 3.327 ( 0.006)  
gap 2n = 1.475 ( 0.006)  
gap alpha = -0.206 ( 0.008)