

$^{73}\text{Br}$        $Z = 35$        $N = 38$       adopted link      ENSDF link

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

BE = 625.470 ( 0.007) MeV

Qbeta+ = 4.582 ( 0.010) MeV

	Energy T	J+	J-	J-other	T1/2	
73BR 1			0.000	1/2-		1 3.4 M 2
73BR 2				0.027	(5/2)-	2
73BR 3			0.178	3/2-		3 0.35 NS 15
73BR 4				0.240	(3/2,5/2)-	4 35.0 NS 14
73BR 5				0.286	(5/2)+	5 0.49 PS LT
73BR 6				0.419	(1/2-,3/2,5/2)	6
73BR 7				0.423	(1/2,3/2,5/2-)	7
73BR 8				0.473	(1/2-,3/2,5/2-)	8
73BR 9				0.474	(9/2)+	9 1.11 NS 21
73BR 10				0.481	(5/2-)	10
73BR 11				0.635	(1/2-,3/2,5/2-)	11
73BR 12			0.681	7/2-		12 15.2 PS 21
73BR 13				0.713	(1/2-,3/2,5/2-)	13
73BR 14				0.943	(9/2-)	14 2.77 PS 14
73BR 15				1.057	(13/2)+	15 3.33 PS 28
73BR 16				1.138	(1/2-,3/2,5/2)	16
73BR 17			1.255	11/2-		17 2.98 PS 21
73BR 18				1.473	(1/2-,3/2,5/2)	18
73BR 19				1.542	(1/2,3/2,5/2)	19
73BR 20				1.662	(13/2-)	20 0.97 PS 14
73BR 21				1.861	(17/2)+	21 1.04 PS 21
73BR 22			1.990	15/2-		22 0.90 PS 17
73BR 23				2.154	(1/2-,3/2,5/2)	23
73BR 24				2.262	(1/2,3/2,5/2-)	24
73BR 25				2.512	(17/2-)	25 0.69 PS 17
73BR 26				2.555	(1/2-,3/2,5/2)	26
73BR 27				2.856	(21/2)+	27 0.43 PS 6
73BR 28				2.874	(19/2-)	28 0.59 PS 7
S-alpha=	2.958 ( 0.033)					
73BR 29				3.017	(1/2,3/2,5/2)-	29
S-p	= 3.067 ( 0.007)					
73BR 30				3.252	(1/2-,3/2,5/2)	30
73BR 31				3.285	(1/2,3/2,5/2)	31
73BR 32				3.462	(1/2-,3/2,5/2)	32
73BR 33				3.465	(21/2-)	33 0.38 PS 7
73BR 34				3.469	(1/2,3/2,5/2)	34
73BR 35				3.910	(23/2-)	35 0.26 PS 5

73BR 36			3.967		36
73BR 37			4.019	(25/2+)	37 0.14 PS 5
73BR 38			4.067	(25/2+)	38
73BR 39			4.280		39
73BR 40			4.330		40
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73BR 41			4.380		41
73BR 42			4.430		42
73BR 43			4.460		43
73BR 44			4.500		44
73BR 45			4.530		45
73BR 46			4.537	(25/2-)	46 0.28 PS 6
73BR 47			4.600		47
73BR 48			4.640		48
73BR 49			4.670		49
73BR 50			4.710		50
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73BR 51			4.740		51
73BR 52			4.780		52
73BR 53			4.830		53
73BR 54			4.890		54
73BR 55			4.960		55
73BR 56			5.040		56
73BR 57			5.090		57
73BR 58			5.091	(27/2-)	58 0.12 PS 5
73BR 59			5.170		59
73BR 60			5.230		60
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73BR 61			5.270		61
73BR 62			5.310		62
73BR 63			5.334	(29/2+)	63 0.11 PS 5
73BR 64			5.340		64
73BR 65			5.390		65
73BR 66			5.450		66
73BR 67			5.500		67
73BR 68			5.560		68
73BR 69			5.610		69
73BR 70			5.640	(29/2+)	70
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73BR 71			5.650		71
73BR 72			5.700		72
73BR 73			5.750		73
73BR 74			5.753	(29/2-)	74
73BR 75			5.790		75
73BR 76			5.830		76
73BR 77			5.890		77
73BR 78			5.960		78
73BR 79			6.060		79
73BR 80			6.140		80
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73BR 81			6.190		81
73BR 82			6.240		82
73BR 83			6.290		83
73BR 84			6.380		84
73BR 85			6.403	(31/2-)	85
73BR 86			6.480		86
73BR 87			6.800	(33/2+)	87
73BR 88			7.100	(33/2-)	88
73BR 89			7.249	(33/2+)	89
73BR 90			7.874	(35/2-)	90
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73BR 91			8.451	(37/2+)	91
73BR 92			8.563	(37/2-)	92
73BR 93			9.006	(37/2+)	93
73BR 94			9.511	(39/2-)	94
73BR 95			9.621	(39/2-)	95

S-p = 3.067 ( 0.007)-----  
S-n = 12.655 ( 0.007)-----  
S-2p = 10.330 ( 0.008)-----  
S-2n = 23.286 ( 0.009)-----  
S-alpha= 2.958 ( 0.033)-----

S+p = -5.975 ( 0.007)  
S+n = -9.714 ( 0.009)  
S+2p = -8.151 ( 0.007)  
S+2n = -21.604 ( 0.008)  
S+alpha = -3.610 ( 0.007)

gap p = -2.909 ( 0.010)  
gap n = 2.942 ( 0.011)  
gap 2p = 2.180 ( 0.010)  
gap 2n = 1.682 ( 0.012)  
gap alpha = -0.651 ( 0.033)