

^{121}Ba $Z = 56$ $N = 65$ adopted link ENSDF link

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

BE = 1003.563 (0.142) MeV

Qbeta+ = 6.358 (0.143) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-1.016	(0.142)	-----		
121BA 1			0.000	5/2(+)	1 29.7 S 15
121BA 2			0.134	(7/2+)	2
121BA 3			0.139	(5/2-)	3
121BA 4			0.176	(7/2-)	4
121BA 5			0.213		5
121BA 6			0.237		6
121BA 7			0.274	(9/2-)	7
121BA 8			0.304	(9/2+)	8
121BA 9			0.372	(11/2-)	9
121BA 10			0.379	(3/2+)	10

121BA 11			0.503	(11/2+)	11
121BA 12			0.559	(5/2+)	12
121BA 13			0.618	(13/2-)	13
121BA 14			0.734	(13/2+)	14
121BA 15			0.747	(15/2-)	15
121BA 16			0.775	(7/2+)	16
121BA 17			0.990	(15/2+)	17
121BA 18			1.024	(9/2+)	18
121BA 19			1.134	(17/2-)	19
121BA 20			1.270	(19/2-)	20

121BA 21			1.274	(17/2+)	21
121BA 22			1.290	(11/2+)	22
121BA 23			1.582	(19/2+)	23
121BA 24			1.598	(13/2+)	24
121BA 25			1.784	(21/2-)	25
121BA 26			1.891	(15/2+)	26
121BA 27			1.905	(21/2+)	27
121BA 28			1.912	(23/2-)	28
121BA 29			2.248	(17/2+)	29
121BA 30			2.254	(23/2+)	30

121BA 31			2.520	(25/2-)	31
121BA 32			2.535	(19/2+)	32
121BA 33			2.600	(25/2+)	33
121BA 34			2.640	(27/2-)	34
121BA 35			2.979	(27/2+)	35
121BA 36			3.128	(23/2+)	36

121BA 37				3.246	(29/2-)	37
121BA 38				3.322	(29/2+)	38
121BA 39				3.414	(31/2-)	39
121BA 40				3.725	(31/2+)	40

121BA 41				3.752	(27/2+)	41
121BA 42				3.920	(33/2-)	42
121BA 43				4.050	(33/2+)	43
S-p	=	4.145	(0.142)	-----		
121BA 44				4.209	(35/2-)	44
121BA 45				4.471	(31/2+)	45
121BA 46				4.471	(35/2+)	46
121BA 47				4.664	(37/2-)	47
121BA 48				4.827	(37/2+)	48
121BA 49				5.042	(39/2-)	49
121BA 50				5.261	(39/2+)	50

121BA 51				5.525	(41/2-)	51
121BA 52				5.691	(41/2+)	52
121BA 53				5.932	(43/2-)	53
121BA 54				6.136	(43/2+)	54
121BA 55				6.498	(45/2-)	55
S-2p	=	6.528	(0.142)	-----		
121BA 56				6.655	(45/2+)	56
121BA 57				6.896	(47/2-)	57
121BA 58				7.114	(47/2+)	58
121BA 59				7.720	(49/2+)	59
121BA 60				7.939	(51/2-)	60

121BA 61				9.065	(55/2-)	61

S-p	=	4.145	(0.142)	-----		
S-n	=	9.927	(0.332)	-----		
S-2p	=	6.528	(0.142)	-----		
S-2n	=	22.297	(0.245)	-----		
S-alpha	=	-1.016	(0.142)	-----		
S+p	=	-1.107	(0.282)			
S+n	=	-11.935	(0.145)			
S+2p	=	-4.176	(0.284)			
S+2n	=	-21.053	(0.142)			
S+alpha	=	1.609	(0.287)			
gap p	=	3.038	(0.316)			
gap n	=	-2.008	(0.362)			
gap 2p	=	2.352	(0.318)			
gap 2n	=	1.245	(0.284)			
gap alpha	=	0.593	(0.321)			