

$^{71}\text{Br}$        $Z = 35$        $N = 36$       adopted link      ENSDF link

Based on ensdf\_240402 (Apr 2024), and mass evaluation from 2020

BE = 602.184 ( 0.005) MeV

Qbeta+ = 6.644 ( 0.006) MeV

	Energy T	J+	J-	J-other	T1/2
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71BR 1			0.000 (5/2)-		1 21.4 S 6
71BR 2			0.010 (1/2-)		2
71BR 3			0.208 (3/2-)		3
71BR 4			0.407 (5/2)-		4
71BR 5				0.615 (3/2,7/2-	5
71BR 6	0.670	(5/2+)			6
71BR 7			0.722 (7/2-)		7
71BR 8	0.759	(9/2+)			8 32.5 NS 25
71BR 9			0.776 (5/2-)		9
71BR 10			0.807 (7/2-)		10
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71BR 11	0.892	(7/2+)			11
71BR 12			0.929 (7/2-)		12
71BR 13			1.055 (9/2-)		13
71BR 14			1.070 (7/2-)		14
71BR 15	1.174	(9/2+)			15
71BR 16	1.490	(11/2+)			16
71BR 17			1.492 (9/2-)		17
71BR 18	1.497	(13/2+)			18
71BR 19	1.586	(11/2+)			19
71BR 20			1.683 (9/2-)		20
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71BR 21			1.714 (11/2-)		21
S-p =	1.862 ( 0.006)	-----	-----	-----	-----
71BR 22	2.122	(13/2+)			22
71BR 23			2.217 (13/2-)		23
71BR 24	2.217	(13/2+)			24
S-alpha=	2.340 ( 0.005)	-----	-----	-----	-----
71BR 25	2.352	(15/2+)			25
71BR 26	2.393	(17/2+)			26
71BR 27			2.478 (13/2-)		27
71BR 28			2.520 (15/2-)		28
71BR 29	3.047	(17/2+)			29
71BR 30			3.188 (17/2-)		30
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71BR 31	3.262	(17/2+)			31
71BR 32			3.377 (17/2-)		32
71BR 33	3.434	(19/2+)			33
71BR 34	3.475	(21/2+)			34

71BR 35				3.529	(19/2-)		35	
71BR 36				4.016	(21/2-)		36	
71BR 37		4.092	(21/2+)				37	
71BR 38				4.311	(21/2-)		38	
71BR 39		4.314	(21/2+)				39	
71BR 40		4.503	(25/2+)				40	
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71BR 41				4.742	(23/2-)		41	
71BR 42		4.744	(25/2+)				42	
71BR 43		4.746	(23/2+)				43	
71BR 44		4.969	(25/2+)				44	
71BR 45		5.314	(25/2+)				45	
71BR 46				5.375	(25/2-)		46	
71BR 47		5.812	(29/2+)				47	
71BR 48		5.995	(27/2+)				48	
71BR 49				6.167	(27/2-)		49	
71BR 50		6.191	(29/2+)				50	
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71BR 51				6.613	(29/2-)		51	
71BR 52		6.709	(29/2+)				52	
71BR 53		7.157	(33/2+)				53	
71BR 54						7.425	54	
71BR 55		7.471	(31/2+)				55	
71BR 56				7.759	(31/2-)		56	
71BR 57				7.786	(33/2-)		57	
71BR 58		7.790	(33/2+)				58	
-----								
S-2p	=	7.968	( 0.032)	-----				
71BR 59		8.245	(33/2+)				59	
71BR 60						8.423	60	
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71BR 61		8.956	(37/2+)				61	
71BR 62		9.090	(35/2+)				62	
71BR 63				9.195	(37/2-)		63	
71BR 64				9.321	(35/2-)		64	
71BR 65		9.527	(37/2+)				65	
71BR 66						9.722	66	
71BR 67		9.997	(37/2+)				67	
71BR 68		10.752	(39/2+)				68	
71BR 69		10.992	(41/2+)				69	
71BR 70				11.031	(41/2-)		70	
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71BR 71		11.434	(41/2+)				71	
71BR 72						11.488	72	
71BR 73		12.381	(43/2+)				73	
-----								
S-n	=	12.640	( 0.017)	-----				
71BR 74		12.875	(45/2+)				74	
71BR 75		13.472	(45/2+)				75	
71BR 76		14.959	(49/2+)				76	

S-p = 1.862 ( 0.006) -----  
S-n = 12.640 ( 0.017) -----  
S-2p = 7.968 ( 0.032) -----  
S-2n = 26.386 ( 0.042) -----  
S-alpha= 2.340 ( 0.005) -----

S+p = -4.727 ( 0.010)  
S+n = -10.631 ( 0.005)  
S+2p = -4.087 ( 0.041)  
S+2n = -23.286 ( 0.009)  
S+alpha = -3.141 ( 0.006)

gap p = -2.866 ( 0.011)  
gap n = 2.009 ( 0.018)  
gap 2p = 3.881 ( 0.052)  
gap 2n = 3.100 ( 0.043)  
gap alpha = -0.801 ( 0.008)