

^{95}Zr $Z = 40$ $N = 55$ adopted link ENSDF link

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

BE = 821.141 (0.001) MeV

Qbeta- = 1.126 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
95ZR 1	0.000	5/2+			1 64.032 D 6
95ZR 2	0.954	1/2+			2
95ZR 3				1.140 3/2+,5/2+	3
95ZR 4				1.324 3/2+,5/2+	4
95ZR 5				1.618 (3/2)+	5
95ZR 6				1.625	6
95ZR 7				1.676 (7/2+)	7
95ZR 8				1.722 (5/2)+	8
95ZR 9				1.792 (9/2+)	9
95ZR 10	1.893	3/2+			10
95ZR 11				1.904 1/2(+),3/2,5/2+	11
95ZR 12				1.940 1/2(+),3/2,5/2+	12
95ZR 13				1.956 5/2(+)	13
95ZR 14				2.022 (11/2-)	14
95ZR 15				2.120	15
95ZR 16				2.250 7/2+,9/2+	16
95ZR 17				2.254 (1/2+,3/2,5/2+)	17
95ZR 18				2.294 3/2+,5/2+	18
95ZR 19				2.317 (3/2+)	19
95ZR 20	2.372	3/2+			20
95ZR 21				2.466 7/2+,9/2+	21
95ZR 22				2.510 3/2+,5/2+	22
95ZR 23				2.629 (11/2+)	23
95ZR 24				2.636 (3/2+)	24
95ZR 25				2.744 (7/2)+	25
95ZR 26	2.770	7/2+			26
95ZR 27				2.816 1/2-,3/2-	27
95ZR 28				2.837 (13/2+)	28
95ZR 29				2.841 (3/2+)	29
95ZR 30				2.880 7/2+,9/2+	30
95ZR 31				2.948 7/2+,9/2+	31
95ZR 32				2.983 3/2+,5/2+	32
95ZR 33				3.009 (3/2+)	33
95ZR 34				3.062 3/2+,5/2+	34
95ZR 35				3.078 (15/2-)	35
95ZR 36	3.102	9/2+			36
95ZR 37			3.117	11/2-	37

95ZR 38				3.118		38
95ZR 39				3.130	1/2-, 3/2-	39
95ZR 40				3.152		40

95ZR 41				3.181	(15/2-)	41
95ZR 42				3.205	3/2+, 5/2+	42
95ZR 43				3.249	(3/2)-	43
95ZR 44		3.250	9/2+			44
95ZR 45		3.300	1/2+			45
95ZR 46		3.320	9/2+			46
95ZR 47				3.330	11/2-	47
95ZR 48				3.386	7/2+, 9/2+	48
95ZR 49				3.399	(17/2+)	49
95ZR 50				3.420	9/2-, 11/2-	50

95ZR 51				3.451	1/2(+), 3/2	51
95ZR 52				3.458	7/2+, 9/2+	52
95ZR 53				3.528	3/2+, 5/2+	53
95ZR 54				3.576	(3/2)-	54
95ZR 55				3.586	1/2-, 3/2-	55
95ZR 56		3.650	9/2+			56
95ZR 57				3.662	11/2-	57
95ZR 58				3.685	1/2-, 3/2-	58
95ZR 59				3.780	7/2+, 9/2+	59
95ZR 60				3.810		60

95ZR 61				3.855		61
95ZR 62				3.887	1/2(+), 3/2	62
95ZR 63				3.900	7/2+, 9/2+	63
95ZR 64		3.926	1/2+			64
95ZR 65				3.955	(19/2-)	65
95ZR 66				4.058	(21/2+)	66
95ZR 67				4.068	(7/2+, 9/2+)	67
95ZR 68				4.070	(3/2)-	68
95ZR 69				4.236		69
95ZR 70				4.300	7/2+, 9/2+	70

S-alpha=	4.433	(0.006)	-----		
95ZR 71				4.484	(23/2+)	71
95ZR 72				4.580	7/2+, 9/2+	72
95ZR 73				4.662	(25/2+)	73
95ZR 74				4.932		74
95ZR 75				5.389	(25/2+)	75
95ZR 76				5.661	(27/2+)	76

S-n	=	6.462	(0.001)	-----	
95ZR 77		6.465	1/2+			77
95ZR 78				6.487	1/2-, 3/2-	78
95ZR 79				6.562	(31/2+)	79

S-p = 10.597 (0.006)-----
S-n = 6.462 (0.001)-----
S-2p = 20.152 (0.008)-----
S-2n = 14.681 (0.001)-----
S-alpha= 4.433 (0.006)-----

S+p = -7.232 (0.001)
S+n = -7.850 (0.001)
S+2p = -16.463 (0.001)
S+2n = -13.419 (0.001)
S+alpha = -2.735 (0.001)

gap p = 3.366 (0.007)
gap n = -1.388 (0.001)
gap 2p = 3.689 (0.008)
gap 2n = 1.261 (0.001)
gap alpha = 1.698 (0.006)