

^{102}Zr $Z = 40$ $N = 62$ adopted link ENSDF link

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

BE = 863.562 (0.009) MeV

Qbeta- = 4.717 (0.009) MeV

	Energy T	J+	J-	J-other	T1/2
102ZR 1	0.000	0+			1 2.9 S 2
102ZR 2	0.152	2+			2 1.8 NS 4
102ZR 3	0.478	4+			3
102ZR 4				0.895 (0+)	4
102ZR 5	0.965	6+			5
102ZR 6				1.036 (2+)	6
102ZR 7				1.160	7
102ZR 8				1.211 (2+)	8
102ZR 9				1.242 (3+)	9
102ZR 10				1.387 (4+)	10
102ZR 11				1.538 (4+)	11
102ZR 12	1.595	8+			12 1.39 PS 21
102ZR 13				1.653 (6+)	13
102ZR 14				1.662 (5-)	14
102ZR 15				1.793 (3,4)	15
102ZR 16				1.821 (4-)	16
102ZR 17				1.822	17
102ZR 18				1.829 (6+)	18
102ZR 19				1.921	19
102ZR 20				1.933 (8+)	20
102ZR 21				1.981 (5-)	21
102ZR 22				2.093 (7-)	22
102ZR 23				2.175 (6-)	23
102ZR 24				2.184 (8+)	24
102ZR 25	2.352	10+			25 0.53 PS 10
102ZR 26				2.373 (8+)	26
102ZR 27				2.403 (7-)	27
102ZR 28				2.466 (10+)	28
102ZR 29				2.664 (9-)	29
102ZR 30				2.666 (8-)	30
102ZR 31				2.826 (10+)	31
102ZR 32				2.925 (7)	32
102ZR 33				2.961 (9-)	33
102ZR 34				3.033 (10+)	34
102ZR 35				3.134 (12+)	35
102ZR 36				3.184 (8)	36
102ZR 37	3.212	12+			37 0.28 PS 4

102ZR	38						3.293	(10-)	38
102ZR	39						3.371	(11-)	39
102ZR	40						3.476	(9)	40

102ZR	41						3.568	(12+)	41
102ZR	42						3.802	(10)	42
102ZR	43						3.926	(14+)	43
102ZR	44		4.153	14+					44
102ZR	45						4.162	(11)	45
102ZR	46						4.205	(13-)	46
102ZR	47						4.828	(16+)	47
102ZR	48						5.161	(15-)	48
102ZR	49		5.169	16+					49
102ZR	50		6.267	18+					50

S-n	=	6.492	(0.012)	-----					
102ZR	51		7.452	20+					51

S-p	=	13.816	(0.011)	-----					
S-n	=	6.492	(0.012)	-----					
S-2p	=	26.342	(0.011)	-----					
S-2n	=	11.351	(0.012)	-----					
S-alpha	=	7.584	(0.009)	-----					

S+p	=	-10.736	(0.010)						
S+n	=	-4.299	(0.013)						
S+2p	=	-23.340	(0.012)						
S+2n	=	-10.279	(0.013)						
S+alpha	=	-6.971	(0.013)						

gap p	=	3.079	(0.015)						
gap n	=	2.193	(0.018)						
gap 2p	=	3.002	(0.017)						
gap 2n	=	1.073	(0.018)						
gap alpha	=	0.612	(0.016)						