

^{94}Zr $Z = 40$ $N = 54$ adopted link ENSDF link

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

BE = 814.679 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
94ZR 1	0.000	0+			1 STABLE
94ZR 2	0.919	2+			2 6.9 PS 15
94ZR 3	1.300	0+			3 0.291 NS 11
94ZR 4	1.470	4+			4 0.500 NS 13
94ZR 5	1.671	2+			5
94ZR 6			2.058 3-		6
94ZR 7	2.151	2+			7
94ZR 8	2.330	4+			8
94ZR 9	2.366	2+			9
94ZR 10				2.401	10
94ZR 11				2.508 (3)+	11
94ZR 12			2.605 5-		12
94ZR 13				2.698 (1,2,3)	13
94ZR 14				2.719	14
94ZR 15				2.769	15
94ZR 16				2.826 (2,3)	16
94ZR 17				2.846 (1-)	17
94ZR 18	2.861	4+			18
94ZR 19	2.888	4+			19
94ZR 20				2.908 (2+)	20
94ZR 21				2.925 (1-,3-,4+)	21
94ZR 22			2.945 5-		22
94ZR 23				3.014	23
94ZR 24				3.030	24
94ZR 25				3.059 (1,2,3)+	25
94ZR 26				3.142 (6+)	26
94ZR 27				3.156 (4+)	27
94ZR 28				3.219 (1,2,3)	28
94ZR 29				3.281 (2+)	29
94ZR 30				3.316	30
94ZR 31				3.331 (5-)	31
94ZR 32				3.361 (1,2,3)	32
94ZR 33				3.407 (3-,4+)	33
94ZR 34				3.443 (7-)	34
94ZR 35				3.482	35
94ZR 36				3.560 (4+)	36
94ZR 37				3.595	37
94ZR 38				3.598 (5-)	38

94ZR 39	|	|	|	3.632	(8+)	39
94ZR 40	|	|	|	3.686		40

94ZR 41	|	|	|	3.725	(2,3,4)+	41
S-alpha=	3.743	(	0.001)	-----		
94ZR 42	|	|	|	3.776	(0+)	42
94ZR 43	|	|	|	3.840		43
94ZR 44	|	|	|	3.884		44
94ZR 45	|	|	|	3.897	(4+)	45
94ZR 46	|	|	|	3.962	(2)+	46
94ZR 47	|	|	|	4.002	(1,2)+	47
94ZR 48	|	|	|	4.052	(1,2)+	48
94ZR 49	|	|	|	4.081	(3-)	49
94ZR 50	|	|	|	4.098	(1,2)+	50

94ZR 51	|	|	|	4.149	(7-)	51
94ZR 52	|	|	|	4.199	(1,2)+	52
94ZR 53	|	|	|	4.224		53
94ZR 54	|	|	|	4.238	(1,2,3)+	54
94ZR 55	|	|	|	4.340	(4+)	55
94ZR 56	|	|	|	4.370		56
94ZR 57	|	|	|	4.479	(10+)	57
94ZR 58	|	|	|	4.638	(1,2,3)+	58
94ZR 59	|	|	|	4.670	(1-,2-,3-)	59
94ZR 60	|	|	|	4.812	(12+)	60

94ZR 61	|	|	|	5.491	(11+)	61
94ZR 62	|	|	|	5.805	(12+)	62
94ZR 63	|	|	|	6.007	(13+)	63
94ZR 64	|	|	|	6.372	(14)	64
94ZR 65	|	|	|	7.055	(15)	65
94ZR 66	|	|	|	7.792	(16)	66
S-n	=	8.219	(	0.000)	-----	
94ZR 67	|	|	|	8.981		67

S-p	=	10.331	(	0.010)	-----	
S-n	=	8.219	(	0.000)	-----	
S-2p	=	18.980	(	0.003)	-----	
S-2n	=	14.953	(	0.000)	-----	
S-alpha=	3.743	(	0.001)	-----		
S+p	=	-6.806	(	0.001)		
S+n	=	-6.462	(	0.001)		
S+2p	=	-16.104	(	0.000)		
S+2n	=	-14.312	(	0.000)		
S+alpha	=	-3.272	(	0.000)		
gap p	=	3.525	(	0.011)		
gap n	=	1.757	(	0.001)		

gap 2p = 2.876 (0.003)
gap 2n = 0.641 (0.000)
gap alpha = 0.472 (0.001)