

^{85}Zr $Z = 40$ $N = 45$ adopted link ENSDF link

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

BE = 727.943 (0.006) MeV

Qbeta+ = 4.667 (0.020) MeV

	Energy T	J+	J-	J-other	T1/2
85ZR 1				0.000 (7/2+)	1 7.86 M 4
85ZR 2				0.050 (9/2+)	2
85ZR 3				0.292 (1/2-)	3 10.9 S 3
85ZR 4				0.790 (9/2-)	4
85ZR 5				0.854 (11/2+)	5
85ZR 6				0.872 (13/2+)	6
85ZR 7				1.043 (13/2+)	7
85ZR 8				1.176 (11/2+)	8
85ZR 9				1.328 (11/2-)	9
85ZR 10				1.394	10

85ZR 11				1.494 (13/2+)	11
85ZR 12				1.758 (15/2+)	12
85ZR 13				1.884 (17/2+)	13
85ZR 14				1.941 (15/2+)	14
85ZR 15				2.078 (15/2+)	15
85ZR 16				2.556 (15/2-)	16
85ZR 17				2.625 (17/2-)	17
85ZR 18				2.725 (17/2-)	18
85ZR 19				2.958 (19/2-)	19
85ZR 20				3.018 (21/2+)	20 0.201 PS +21-28

85ZR 21				3.073 (21/2+)	21
85ZR 22				3.387 (21/2-)	22
85ZR 23				3.457 (21/2-)	23
85ZR 24				3.516 (23/2+)	24
85ZR 25				3.522 (21/2-)	25
85ZR 26				3.838 (23/2-)	26
85ZR 27				3.958 (25/2+)	27 0.80 PS +26-28
85ZR 28				3.993 (23/2-)	28

S-alpha=	4.072 (0.007)				
85ZR 29				4.205 (25/2+)	29
85ZR 30				4.374 (25/2-)	30

85ZR 31				4.589 (27/2+)	31
85ZR 32				4.887 (27/2-)	32
85ZR 33				4.983 (29/2-)	33
85ZR 34				4.996 (29/2+)	34 0.291 PS 28
85ZR 35				5.023 (27/2-)	35
85ZR 36				5.530 (29/2-)	36

85ZR	37				5.602	(29/2-)	37
85ZR	38				6.003	(33/2+)	38
85ZR	39				6.076	(31/2-)	39
85ZR	40				6.239	(33/2+)	40

S-p = 6.570 (0.008)-----

85ZR	41				7.482	(37/2+)	41
85ZR	42				7.527	(35/2-)	42
85ZR	43				7.720	(37/2+)	43
85ZR	44				8.918	(41/2+)	44
85ZR	45				9.232	(39/2-)	45
85ZR	46				9.332	(41/2+)	46

S-p = 6.570 (0.008)-----

S-n = 9.825 (0.008)-----

S-2p = 10.956 (0.009)-----

S-2n = 23.406 (0.009)-----

S-alpha= 4.072 (0.007)-----

S+p = -3.248 (0.008)

S+n = -12.865 (0.007)

S+2p = -8.288 (0.007)

S+2n = -22.315 (0.008)

S+alpha = -4.265 (0.008)

gap p = 3.322 (0.011)

gap n = -3.041 (0.011)

gap 2p = 2.668 (0.012)

gap 2n = 1.092 (0.012)

gap alpha = -0.193 (0.010)