

$^{78}\text{Sr}$        $Z = 38$        $N = 40$       adopted link      ENSDF link

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

BE = 663.008 ( 0.007) MeV

Qbeta+ = 3.762 ( 0.008) MeV

	Energy T	J+	J-	J-other	T1/2
78SR 1	0.000	0+			1 160 S 8
78SR 2	0.278	2+			2 155 PS 19
78SR 3	0.781	4+			3 5.1 PS 5
78SR 4				1.478	4
78SR 5	1.493	6+			5
78SR 6				1.903	6
78SR 7				2.244	7
78SR 8				2.310 (3-)	8
78SR 9	2.388	8+			9
78SR 10				2.537 (4-)	10
78SR 11				2.606 (4-)	11
78SR 12				2.712 (5-)	12
78SR 13				2.860 (5-)	13
78SR 14				3.080 (6-)	14
78SR 15				3.139 (6-)	15
78SR 16				3.173 (6-)	16
78SR 17				3.231	17
S-alpha=	3.267 ( 0.008)				
78SR 18				3.385 (7-)	18
78SR 19	3.446	10+			19
78SR 20				3.526 (7-)	20
78SR 21				3.927 (8-)	21
78SR 22				3.964 (8-)	22
78SR 23				4.251 (9-)	23
78SR 24				4.401 (9-)	24
78SR 25	4.657	12+			25
78SR 26				4.883 (10-)	26
78SR 27				5.281 (11-)	27
78SR 28				5.469 (11-)	28
S-p =	5.632 ( 0.008)				
78SR 29				5.982 (12-)	29
78SR 30	6.025	14+			30
78SR 31				6.036 (14+)	31
78SR 32				6.436 (13-)	32
78SR 33				7.190 (14-)	33
78SR 34	7.559	16+			34
78SR 35				7.671 (15-)	35

78SR	36				8.474	(16-)	36
S-2p	=	8.738	( 0.008)	-----			
78SR	37				8.987	(17-)	37
78SR	38		9.254	18+			38
78SR	39				9.870	(18-)	39

  

S-p	=	5.632	( 0.008)	-----			
S-n	=	13.442	( 0.011)	-----			
S-2p	=	8.738	( 0.008)	-----			
S-2n	=	25.069	( 0.035)	-----			
S-alpha	=	3.267	( 0.008)	-----			

  

S+p	=	-1.918	( 0.080)
S+n	=	-10.377	( 0.011)
S+2p	=	-6.192	( 0.320)
S+2n	=	-23.280	( 0.008)
S+alpha	=	-2.865	( 0.008)

  

gap p	=	3.714	( 0.081)
gap n	=	3.065	( 0.015)
gap 2p	=	2.546	( 0.320)
gap 2n	=	1.789	( 0.036)
gap alpha	=	0.402	( 0.011)