

^{82}Sr $Z = 38$ $N = 44$ adopted link ENSDF link

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

BE = 708.129 (0.006) MeV

Qbeta+ = 0.178 (0.007) MeV

	Energy T	J+	J-	J-other	T1/2
82SR 1	0.000	0+			1 25.35 D 3
82SR 2	0.574	2+			2 8.9 PS 4
82SR 3	1.176	2+			3 7.5 PS 24
82SR 4	1.311	0+			4 3.5 NS LT
82SR 5	1.329	4+			5 1.0 PS 2
82SR 6	1.689	3+			6
82SR 7	1.865	2+			7
82SR 8	1.996	4+			8 1.3 PS 4
82SR 9	2.195	2+			9
82SR 10	2.229	6+			10 0.37 PS +15-11
82SR 11			2.402	3-	11
82SR 12	2.526	5+			12
82SR 13	2.665	0+			13
82SR 14			2.817	5-	14 3.0 PS 6
82SR 15			2.824	4-	15
82SR 16	2.836	6+			16 0.6 PS 4
82SR 17				2.885 (2+)	17
82SR 18				2.920	18
82SR 19			3.007	4-	19
82SR 20				3.073 (5-)	20
82SR 21			3.086	6-	21
82SR 22				3.142 (5-)	22
82SR 23	3.243	8+			23 0.24 PS +10-6
82SR 24			3.340	6-	24
82SR 25	3.477	7+			25
82SR 26				3.511 (7)-	26
82SR 27			3.526	7-	27
82SR 28			3.566	7-	28
82SR 29			3.608	7-	29
82SR 30	3.623	8+			30 0.7 PS 4
82SR 31				3.686 (8+)	31
82SR 32			4.033	8-	32
82SR 33			4.143	8-	33
82SR 34				4.248	34
S-alpha=	4.257 (0.006)				
82SR 35	4.350	10+			35 0.14 PS +6-4
82SR 36			4.367	9-	36

82SR 37						4.387	(9-)	37				
82SR 38		4.424	10+					38	0.9 PS	2		
82SR 39					4.473	9-		39				
82SR 40		4.492	9+					40				

82SR 41							4.637	(10+)	41			
82SR 42					4.909	10-		42	0.36 PS	+11-8		
82SR 43					5.237	10-		43				
82SR 44					5.308	11-		44	0.30 PS	+10-7		
82SR 45							5.334	45				
82SR 46							5.392	46				
82SR 47		5.427	12+					47	0.33 PS	+11-8		
82SR 48							5.469	48				
82SR 49							5.479	(11-)	49			
82SR 50		5.569	12+					50	0.06 PS	6		

82SR 51							5.738	(12+)	51			
82SR 52					5.914	12-		52	0.27 PS	+11-8		
82SR 53					6.367	13-		53	0.15 PS	+8-6		
82SR 54							6.450	54				
82SR 55		6.544	14+					55	0.25 PS	+11-9		
82SR 56							6.556	56				
82SR 57							6.565	(13-)	57			
82SR 58							6.937	(14+)	58	0.04 PS +6-3		
82SR 59					7.067	14-		59	0.08 PS	+5-4		
82SR 60							7.535	60				

82SR 61					7.545	15-		61	0.12 PS	5		
82SR 62							7.788	(15-)	62			
82SR 63		7.812	16+					63	0.09 PS	+5-4		
S-p	=	7.842	(0.008)	-----								
82SR 64							7.936	64				
82SR 65					8.378	16-		65	0.14 PS	6		
82SR 66							8.435	(16+)	66	0.18 PS LT		
82SR 67					8.842	17-		67	0.08 PS	6		
82SR 68							9.167	(17-)	68			
82SR 69		9.238	18+					69	0.05 PS	+7-4		
82SR 70							9.478	70				

82SR 71							9.843	(18-)	71	0.19 PS LT		

S-p = 7.842 (0.008)-----
S-n = 12.553 (0.007)-----
S-2p = 12.695 (0.006)-----
S-2n = 21.841 (0.007)-----
S-alpha= 4.257 (0.006)-----

S+p = -3.485 (0.020)
S+n = -8.859 (0.009)

S+2p = -9.990 (0.008)
S+2n = -20.782 (0.006)
S+alpha = -4.384 (0.007)

gap p = 4.358 (0.021)
gap n = 3.694 (0.011)
gap 2p = 2.705 (0.010)
gap 2n = 1.059 (0.009)
gap alpha = -0.127 (0.009)