

$^{80}\text{Sr}$        $Z = 38$        $N = 42$       adopted link      ENSDF link

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

BE = 686.288 ( 0.003) MeV

Qbeta+ = 1.864 ( 0.004) MeV

	Energy T	J+	J-	J-other	T1/2
80SR 1	0.000	0+			1 106.3 M 15
80SR 2	0.386	2+			2 34.2 PS 12
80SR 3	0.981	4+			3 2.90 PS 14
80SR 4				1.000 (0+)	4
80SR 5				1.142 (2+)	5
80SR 6				1.571 (3+)	6
80SR 7				1.654 (2+)	7
80SR 8	1.764	6+			8 0.56 PS 6
80SR 9				1.833 (4+)	9
80SR 10				2.296 (5+)	10
80SR 11				2.301 (3,4+)	11
80SR 12				2.419 (3,4+)	12
80SR 13				2.493 (0,1,2)	13
80SR 14				2.642 (6+)	14
80SR 15				2.700 (8+)	15 0.28 PS 3
80SR 16				2.836 (4)	16
80SR 17				2.898 (5)	17
80SR 18				2.958 (3,4,5+)	18
80SR 19				3.048 (5-)	19
80SR 20				3.058 (3,4,5+)	20
80SR 21				3.095 (3,4,5+)	21
80SR 22				3.163 (3,4,5+)	22
80SR 23				3.173 (7+)	23 0.8 PS 6
80SR 24				3.284 (3+,4,5)	24
80SR 25				3.312 (3,4+)	25
80SR 26				3.314 (6-)	26
80SR 27				3.377 (3,4,5+)	27
80SR 28				3.394 (6)	28
80SR 29				3.581 (7-)	29 21 PS GT
80SR 30				3.586 (8+)	30
80SR 31				3.603 (7-)	31 21 PS GT
80SR 32				3.697 (3,4,5)	32
80SR 33				3.715 (7-)	33
S-alpha=	3.723 ( 0.005)				
80SR 34				3.766 (10+)	34 0.125 PS 14
80SR 35				4.057 (8)	35 0.5 PS +15-5
80SR 36				4.157 (8-)	36

80SR 37				4.169	(9+)	37	3.2 PS	LT
80SR 38				4.379	(9-)	38	0.9 PS	+12-6
80SR 39				4.471	(9)	39		
80SR 40				4.633	(9-)	40		
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80SR 41				4.651	(9)	41		
80SR 42				4.678	(10+)	42		
80SR 43				4.898		43		
80SR 44				4.923	(10)	44	1.2 PS	+15-5
80SR 45				4.952	(12+)	45	0.090 PS	11
80SR 46				5.150	(10-)	46		
80SR 47				5.274	(11+)	47		
80SR 48				5.350	(11-)	48	0.29 PS	4
80SR 49				5.501	(11)	49		
80SR 50				5.959	(12)	50	1.1 PS	LT
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80SR 51				6.023		51		
80SR 52				6.277	(14+)	52	0.118 PS	14
80SR 53				6.289	(12-)	53		
80SR 54				6.470	(13-)	54	0.132 PS	25
80SR 55				6.495	(13+)	55		
80SR 56				6.668	(13)	56		
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S-p	=	6.798	( 0.004)	-----				
80SR 57				7.107		57		
80SR 58				7.157	(14)	58		
80SR 59				7.308		59		
80SR 60				7.632	(14-)	60		
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80SR 61				7.731	(15-)	61	0.083 PS	23
80SR 62				7.753	(16+)	62	0.028 PS	7
80SR 63				7.835	(15+)	63		
80SR 64				7.867	(15+)	64		
80SR 65				7.975	(15)	65		
80SR 66				8.142		66		
80SR 67				8.500	(16)	67		
80SR 68				8.715		68		
80SR 69				9.099	(17-)	69	0.042 PS	21
80SR 70				9.323	(17+)	70		
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80SR 71				9.331	(18+)	71	0.040 PS	21
80SR 72				9.342	(17+)	72		
80SR 73				9.418	(17)	73		
80SR 74				9.488		74		
80SR 75				9.845		75		
80SR 76				9.883	(18)	76		

S-p = 6.798 ( 0.004)-----  
S-n = 12.903 ( 0.008)-----  
S-2p = 10.711 ( 0.003)-----

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S-2n = 23.280 ( 0.008)-----  
S-alpha= 3.723 ( 0.005)-----  
  
S+p = -2.690 ( 0.006)  
S+n = -9.288 ( 0.005)  
S+2p = -7.881 ( 0.004)  
S+2n = -21.841 ( 0.007)  
S+alpha = -3.535 ( 0.007)  
  
gap p = 4.107 ( 0.008)  
gap n = 3.615 ( 0.009)  
gap 2p = 2.831 ( 0.005)  
gap 2n = 1.439 ( 0.011)  
gap alpha = 0.188 ( 0.008)
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