

$^{81}\text{Sr}$        $Z = 38$        $N = 43$       adopted link      ENSDF link

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

BE = 695.576 ( 0.003) MeV

Qbeta+ = 3.929 ( 0.006) MeV

	Energy T	J+	J-	J-other	T1/2		
81SR	1		0.000	1/2-	1	22.3 M	4
81SR	2			0.079 (5/2)-	2	0.39 US	5
81SR	3			0.089 (7/2+)	3	6.4 US	5
81SR	4			0.120 (1/2+)	4	24 NS	4
81SR	5			0.132 (9/2+)	5	9 NS	LT
81SR	6			0.155 (3/2-)	6	74 PS	20
81SR	7			0.203 (3/2+,5/2+,7/2+)	7)	1.1 NS	3
81SR	8			0.221 (3/2+)	8	0.63 NS	20
81SR	9			0.295 (3/2-)	9		
81SR	10			0.336 (5/2+)	10	0.16 NS	5
81SR	11			0.366 (7/2)-	11	53 PS	15
81SR	12			0.379 (5/2-)	12	12 PS	6
81SR	13			0.536 (5/2-)	13		
81SR	14			0.558 (7/2+)	14	17 PS	17
81SR	15			0.612 (7/2+)	15	7 NS	LT
81SR	16			0.633 (7/2-)	16		
81SR	17			0.707 (9/2)-	17		
81SR	18			0.797 (9/2+)	18		
81SR	19			0.811 (11/2+)	19	2.8 PS	9
81SR	20			0.905 (13/2+)	20	4.6 PS	13
81SR	21			1.000 (9/2-)	21		
81SR	22			1.056 (11/2-)	22		
81SR	23			1.109 (11/2+)	23		
81SR	24			1.333 (11/2-)	24		
81SR	25			1.470 (13/2+)	25	0.76 PS	GE
81SR	26			1.506 (13/2-)	26		
81SR	27			1.740 (15/2+)	27		
81SR	28			1.804 (13/2-)	28		
81SR	29			1.862 (15/2+)	29	0.62 PS	14
81SR	30			1.865 (17/2+)	30	1.0 PS	3
81SR	31			1.910 (15/2-)	31	1.2 PS	GE
81SR	32			2.213 (15/2-)	32		
81SR	33			2.324 (17/2+)	33	0.30 PS	8
81SR	34			2.448 (17/2-)	34	0.60 PS	21
81SR	35			2.740 (17/2-)	35		
81SR	36			2.791 (19/2+)	36	0.14 PS	4
81SR	37			2.904 (19/2-)	37	0.36 PS	10

81SR	38				2.963	(21/2+)	38	0.22	PS	5
81SR	39				3.145	(19/2-)	39			
81SR	40				3.330	(21/2+)	40	0.17	PS	5
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81SR	41				3.407	(21/2+)	41			
81SR	42				3.496	(21/2-)	42	0.38	PS	14
81SR	43				3.714	(23/2+)	43	0.40	PS	16
S-alpha=	3.784	(	0.004)	-----						
81SR	44				3.800	(21/2-)	44			
81SR	45				3.858	(23/2-)	45			
81SR	46				3.887	(23/2+)	46	0.13	PS	4
81SR	47				3.978	(23/2-)	47	0.55	PS	LT
81SR	48				4.044	(23/2-)	48			
81SR	49				4.059	(23/2-)	49			
81SR	50				4.107	(25/2+)	50	0.17	PS	4
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81SR	51				4.143	(23/2-)	51			
81SR	52				4.473	(25/2+)	52	0.09	PS	3
81SR	53				4.551	(25/2-)	53	0.55	PS	LT
81SR	54				4.730	(25/2-)	54			
81SR	55				4.753	(27/2+)	55	0.20	PS	4
81SR	56				4.934	(25/2-)	56			
81SR	57				4.998	(27/2-)	57			
81SR	58				5.084	(27/2+)	58	0.21	PS	LT
81SR	59				5.103	(27/2-)	59			
81SR	60				5.174	(27/2+)	60			
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81SR	61				5.242	(29/2+)	61	0.35	PS	LT
81SR	62				5.248	(27/2-)	62			
81SR	63				5.264	(27/2-)	63			
81SR	64				5.705	(29/2-)	64			
81SR	65				5.753	(29/2+)	65	0.07	PS	LT
81SR	66				6.002	(31/2+)	66	0.28	PS	LT
81SR	67				6.068	(29/2-)	67			
81SR	68				6.114	(29/2-)	68			
81SR	69				6.134	(31/2-)	69			
81SR	70		6.266	31/2+			70			
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81SR	71				6.358	(31/2-)	71			
81SR	72				6.465	(31/2+)	72			
81SR	73				6.484	(33/2+)	73			
81SR	74				6.520	(31/2-)	74			
S-p	=	6.642	(	0.004)	-----					
81SR	75				6.793	(33/2+)	75			
81SR	76				6.990	(33/2-)	76			
81SR	77				7.136	(33/2+)	77			
81SR	78				7.184	(33/2+)	78			
81SR	79				7.402	(35/2-)	79			
81SR	80				7.449	(35/2+)	80			
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81SR 81				7.642	(33/2-)	81
81SR 82				7.761	(35/2-)	82
81SR 83				7.860	(37/2+)	83
81SR 84				7.935	(35/2+)	84
81SR 85				8.403	(37/2-)	85
81SR 86				8.674	(37/2+)	86
81SR 87				8.771	(37/2+)	87
81SR 88				8.822	(39/2-)	88
81SR 89				9.250	(39/2-)	89
S-n	=	9.288	( 0.005)	-----		
81SR 90				9.314	(37/2-)	90
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81SR 91				9.405	(41/2+)	91
81SR 92				9.475	(39/2+)	92
81SR 93				9.929	(41/2-)	93

  

S-p	=	6.642	( 0.004)	-----		
S-n	=	9.288	( 0.005)	-----		
S-2p	=	11.664	( 0.005)	-----		
S-2n	=	22.191	( 0.008)	-----		
S-alpha	=	3.784	( 0.004)	-----		

  

S+p	=	-3.825	( 0.006)
S+n	=	-12.553	( 0.007)
S+2p	=	-8.961	( 0.007)
S+2n	=	-21.412	( 0.008)
S+alpha	=	-4.072	( 0.007)

  

gap p	=	2.817	( 0.007)
gap n	=	-3.265	( 0.008)
gap 2p	=	2.702	( 0.009)
gap 2n	=	0.779	( 0.011)
gap alpha	=	-0.288	( 0.008)