

^{172}Os $Z = 76$ $N = 96$ adopted link ENSDF link

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

BE = 1366.052 (0.013) MeV

Qbeta+ = 4.323 (0.038) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-5.224	(0.018)	-----		
1720S 1	0.000	0+			1 19.2 S 9
1720S 2	0.228	2+			2 116 PS 7
1720S 3	0.606	4+			3 7.1 PS 7
1720S 4				0.703 (2+)	4
1720S 5	0.758	0+			5
1720S 6	0.810	2+			6
1720S 7	0.919	2+			7
1720S 8	1.054	6+			8 1.8 PS 2
1720S 9				1.108 (3+)	9
1720S 10	1.138	4+			10

1720S 11				1.340 (4+)	11
1720S 12				1.469 (3-)	12
1720S 13	1.525	8+			13 1.1 PS +3-2
1720S 14	1.551	6+			14
1720S 15				1.605 (5+)	15
1720S 16				1.656 5(-)	16
1720S 17				1.679	17
1720S 18				1.728 (4-)	18
1720S 19				1.807	19
1720S 20				1.873	20

1720S 21				1.885 (6+)	21
1720S 22				1.919	22
1720S 23				1.978 7(-)	23 6.4 PS 12
1720S 24	2.024	10+			24 1.2 PS +2-3
1720S 25				2.061 (6-)	25
1720S 26				2.094 (8+)	26
1720S 27				2.141	27
1720S 28				2.258	28
1720S 29				2.288	29
1720S 30				2.375 9(-)	30 4.1 PS +29-20

1720S 31				2.415 (8-)	31
1720S 32				2.430	32
1720S 33				2.439	33
1720S 34				2.508	34
1720S 35	2.565	12+			35 0.76 PS +14-21
1720S 36				2.635 (10-)	36

1720S	37	|	|	|	2.766	11(-)	37	6.9 PS	6
1720S	38	|	|	|	2.841		38		
1720S	39	|	|	|	2.846	(10-)	39		
1720S	40	|	|	|	3.005	(12-)	40		

1720S	41	|	|	|	3.099		41		
1720S	42	|	3.101	14+	|	|	42	0.76 PS	28
1720S	43	|	|	|	3.194	13(-)	43	3.4 PS	+6-5
1720S	44	|	|	|	3.199	(14+)	44		
S-p	=	3.282	(	0.031)	-----				
1720S	45	|	|	|	3.322	(12-)	45		
1720S	46	|	|	|	3.513	(14-)	46		
1720S	47	|	3.590	16+	|	|	47	2.5 PS	+4-5
1720S	48	|	|	|	3.711	(15-)	48	1.2 PS	+6-7
1720S	49	|	|	|	3.823	(16+)	49		
1720S	50	|	|	|	3.848	(14-)	50		

1720S	51	|	|	|	4.068	(16-)	51		
1720S	52	|	|	|	4.176	(18+)	52	1.1 PS	+8-4
1720S	53	|	|	|	4.277	(17-)	53		
1720S	54	|	|	|	4.412	(16-)	54		
1720S	55	|	|	|	4.511	(18+)	55		
S-2p	=	4.531	(	0.018)	-----				
1720S	56	|	|	|	4.640	(18-)	56		
1720S	57	|	|	|	4.832	(20+)	57	0.9 PS	LT
1720S	58	|	|	|	4.872	(19-)	58		
1720S	59	|	|	|	5.004	(18-)	59		
1720S	60	|	|	|	5.235	(20+)	60		

1720S	61	|	|	|	5.245	(20-)	61		
1720S	62	|	|	|	5.491	(21-)	62		
1720S	63	|	|	|	5.528	(22+)	63		
1720S	64	|	|	|	5.634	(20-)	64		
1720S	65	|	|	|	5.892	(22-)	65		
1720S	66	|	|	|	5.986	(22+)	66		
1720S	67	|	|	|	6.103		67		
1720S	68	|	|	|	6.135	(23-)	68		
1720S	69	|	|	|	6.259	(24+)	69		
1720S	70	|	|	|	6.299	(22-)	70		

1720S	71	|	|	|	6.585	(24-)	71		
1720S	72	|	|	|	6.812		72		
1720S	73	|	|	|	6.819	(25-)	73		
1720S	74	|	|	|	7.028	(26+)	74		
1720S	75	|	|	|	7.327	(26-)	75		
1720S	76	|	|	|	7.555		76		
1720S	77	|	|	|	7.843	(28+)	77		
1720S	78	|	|	|	8.119	(28-)	78		
1720S	79	|	|	|	8.690	(30+)	79		

S-p	=	3.282	(	0.031)	-----
S-n	=	11.018	(	0.022)	-----
S-2p	=	4.531	(	0.018)	-----
S-2n	=	19.461	(	0.016)	-----
S-alpha	=	-5.224	(	0.018)	-----
S+p	=	-0.314	(	0.017)	
S+n	=	-8.266	(	0.020)	
S+2p	=	-2.652	(	0.016)	
S+2n	=	-18.894	(	0.016)	
S+alpha	=	5.885	(	0.018)	
gap p	=	2.969	(	0.035)	
gap n	=	2.752	(	0.030)	
gap 2p	=	1.879	(	0.025)	
gap 2n	=	0.566	(	0.023)	
gap alpha	=	0.661	(	0.026)	