

$^{105}\text{Mo}$        $Z = 42$        $N = 63$       adopted link      ENSDF link

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

BE = 891.961 ( 0.009) MeV

Qbeta- = 4.955 ( 0.036) MeV

	Energy T	J+	J-	J-other	T1/2	
105MO	1			0.000 (5/2-)	1	36.3 S 8
105MO	2			0.095 (7/2-)	2	0.48 NS 4
105MO	3			0.233 (9/2-)	3	111 PS 10
105MO	4			0.247 (3/2+)	4	0.30 NS 6
105MO	5			0.310 (5/2+)	5	
105MO	6			0.332 (1/2+)	6	
105MO	7			0.349 (5/2+)	7	
105MO	8			0.378 (11/2-)	8	0.7 NS +7-4
105MO	9			0.397 (3/2+)	9	0.53 NS 7
105MO	10			0.464 (7/2+)	10	81 PS 12
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105MO	11			0.508 (7/2+)	11	0.08 NS 5
105MO	12			0.514 (3/2-:9/2-)	12	
105MO	13			0.525 (5/2+)	13	0.10 NS 5
105MO	14			0.624 (13/2-)	14	0.5 NS 2
105MO	15			0.649 (5/2-:11/2-)	15	
105MO	16			0.650 (9/2+)	16	
105MO	17			0.663 (7/2+)	17	
105MO	18			0.718 (9/2+)	18	
105MO	19			0.796 (15/2-)	19	0.8 NS 5
105MO	20			0.858 (11/2+)	20	
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105MO	21			0.870 (9/2-)	21	
105MO	22			0.881 (9/2+)	22	
105MO	23			0.965 (11/2+)	23	
105MO	24			1.064 (11/2-)	24	
105MO	25			1.078 (11/2+)	25	
105MO	26			1.118 (13/2+)	26	
105MO	27			1.176 (17/2-)	27	
105MO	28			1.245 (13/2+)	28	
105MO	29			1.303 (13/2-)	29	
105MO	30			1.353 (19/2-)	30	3.04 PS 65
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105MO	31			1.365 (13/2+)	31	
105MO	32			1.386 (15/2+)	32	
105MO	33			1.534 (13/2-)	33	
105MO	34			1.553 (15/2+)	34	
105MO	35			1.570 (15/2-)	35	
105MO	36			1.618 (15/2+)	36	
105MO	37			1.718 (17/2+)	37	

105M0	38				1.801	(15/2-)	38		
105M0	39				1.877	(17/2+)	39		
105M0	40				1.881	(17/2-)	40		
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105M0	41				1.882	(21/2-)	41		
105M0	42				1.950	(17/2+)	42		
105M0	43				2.037	(19/2+)	43		
105M0	44				2.047	(23/2-)	44	0.94 PS	21
105M0	45				2.106	(17/2-)	45		
105M0	46				2.213	(19/2-)	46		
105M0	47				2.231	(19/2+)	47		
105M0	48				2.277	(19/2+)	48		
105M0	49				2.427	(21/2+)	49		
105M0	50				2.448	(19/2-)	50		
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105M0	51				2.589	(21/2-)	51		
105M0	52				2.641	(21/2+)	52		
105M0	53				2.728	(25/2-)	53		
105M0	54				2.793	(23/2+)	54		
105M0	55				2.873	(27/2-)	55		
105M0	56				2.982	(23/2-)	56		
105M0	57				3.205	(25/2+)	57		
105M0	58				3.425	(25/2-)	58		
105M0	59				3.635	(27/2+)	59		
105M0	60				3.692	(29/2-)	60		
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105M0	61				3.823	(31/2-)	61		
105M0	62				4.742	(33/2-)	62		
105M0	63				4.895	(35/2-)	63		
S-n	=	5.058	(	0.013)	-----				
105M0	64				6.076	(39/2-)	64		
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S-p	=	12.809	(	0.009)	-----				
S-n	=	5.058	(	0.013)	-----				
S-2p	=	24.100	(	0.013)	-----				
S-2n	=	12.519	(	0.013)	-----				
S-alpha	=	6.595	(	0.012)	-----				
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S+p	=	-9.734	(	0.015)					
S+n	=	-6.869	(	0.013)					
S+2p	=	-21.110	(	0.013)					
S+2n	=	-11.357	(	0.013)					
S+alpha	=	-5.833	(	0.013)					
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gap p	=	3.074	(	0.018)					
gap n	=	-1.810	(	0.018)					
gap 2p	=	2.990	(	0.018)					
gap 2n	=	1.162	(	0.018)					
gap alpha	=	0.762	(	0.018)					