

$^{101}\text{Zr}$        $Z = 40$        $N = 61$       adopted link      ENSDF link

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

BE = 857.070 ( 0.008) MeV

Qbeta- = 5.731 ( 0.009) MeV

	Energy T	J+	J-	J-other	T1/2	
101ZR	1			0.000 (3/2+)	1	2.3 S 1
101ZR	2			0.098 (5/2+)	2	0.6 NS 2
101ZR	3			0.217 (5/2-)	3	0.33 NS 12
101ZR	4			0.232 (7/2+)	4	0.07 NS LT
101ZR	5			0.321 (7/2-)	5	0.27 NS 13
101ZR	6			0.408 (9/2+)	6	
101ZR	7			0.468 (9/2-)	7	
101ZR	8			0.611 (11/2+)	8	
101ZR	9			0.620 (11/2-)	9	
101ZR	10			0.674 (3/2,5/2)	10	
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101ZR	11			0.744 (3/2,5/2)	11	
101ZR	12			0.759 (3/2+)	12	
101ZR	13			0.787 (5/2,7/2)	13	
101ZR	14			0.808 (5/2,7/2)	14	
101ZR	15			0.828	15	
101ZR	16			0.845 (7/2-)	16	
101ZR	17			0.859 (13/2+)	17	
101ZR	18			0.870 (13/2-)	18	
101ZR	19			0.880	19	
101ZR	20			0.902	20	
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101ZR	21			0.942 (9/2+)	21	16 NS 2
101ZR	22			0.959	22	
101ZR	23			1.038	23	
101ZR	24			1.048 (15/2-)	24	
101ZR	25			1.077	25	
101ZR	26			1.121 (15/2+)	26	
101ZR	27			1.165 (11/2+)	27	
101ZR	28			1.217	28	
101ZR	29			1.298	29	
101ZR	30			1.399 (3/2,5/2)+	30	
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101ZR	31			1.424 (13/2+)	31	
101ZR	32			1.432 (17/2-)	32	
101ZR	33			1.437 (17/2+)	33	
101ZR	34			1.524	34	
101ZR	35			1.530	35	
101ZR	36			1.617 (19/2-)	36	
101ZR	37			1.720 (15/2+)	37	

101ZR 38				1.750	(19/2+)	38
101ZR 39				1.942		39
101ZR 40				2.023	(3/2,5/2)+	40
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101ZR 41				2.051	(17/2+)	41
101ZR 42				2.083		42
101ZR 43				2.134	(21/2+)	43
101ZR 44				2.152	(21/2-)	44
101ZR 45				2.267		45
101ZR 46				2.329	(23/2-)	46
101ZR 47				2.416		47
101ZR 48				2.488	(23/2+)	48
101ZR 49				2.787		49
101ZR 50				2.943	(25/2+)	50
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101ZR 51				3.023	(25/2-)	51
101ZR 52				3.182	(27/2-)	52
101ZR 53				3.336	(27/2+)	53
101ZR 54				3.858	(29/2+)	54
101ZR 55				4.036	(29/2-)	55
101ZR 56				4.166	(31/2-)	56
101ZR 57				4.293	(31/2+)	57
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S-n	=	4.860	( 0.012)	-----		
101ZR 58				4.876	(33/2+)	58
101ZR 59				5.164	(33/2-)	59
101ZR 60				5.256	(35/2-)	60
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101ZR 61				5.358	(35/2+)	61
101ZR 62				6.003	(37/2+)	62
101ZR 63				6.411	(39/2-)	63
101ZR 64				6.506	(39/2+)	64
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S-p	=	13.129	( 0.014)	-----		
S-n	=	4.860	( 0.012)	-----		
S-2p	=	25.220	( 0.010)	-----		
S-2n	=	11.687	( 0.013)	-----		
S-alpha	=	7.005	( 0.009)	-----		
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S+p	=	-10.426	( 0.009)			
S+n	=	-6.492	( 0.012)			
S+2p	=	-22.371	( 0.012)			
S+2n	=	-10.791	( 0.012)			
S+alpha	=	-6.595	( 0.012)			
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gap p	=	2.703	( 0.016)			
gap n	=	-1.632	( 0.017)			
gap 2p	=	2.849	( 0.016)			
gap 2n	=	0.896	( 0.018)			
gap alpha	=	0.411	( 0.015)			