

$^{70}\text{As}$        $Z = 33$        $N = 37$       adopted link      ENSDF link

Based on ensdf\_240402 (Apr 2024), and mass evaluation from 2020

BE = 603.509 ( 0.001) MeV

Qbeta+ = 6.228 ( 0.002) MeV

	Energy T	J+		J-		J-other		T1/2
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70AS	1	0.000	4+				1	52.6 M 3
70AS	2	0.032	2+				2	96 US 3
70AS	3	0.082	1+				3	3 NS LT
70AS	4	0.167	3+				4	6.0 NS 5
70AS	5	0.168	(2)+				5	3 NS LT
70AS	6	0.235	1+				6	1 NS LT
70AS	7	0.326	2+				7	
70AS	8	0.329	1+				8	
70AS	9	0.345	(0)+				9	1 NS LT
70AS	10			0.383	2-		10	1 NS LT
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70AS	11	0.390	3+				11	1 NS LT
70AS	12	0.425	(0)+				12	
70AS	13	0.458	1+				13	
70AS	14			0.485	4-		14	4.1 NS 4
70AS	15	0.509	3+				15	
70AS	16	0.540	2+				16	
70AS	17			0.567	5(-)		17	2 NS LT
70AS	18	0.572	2+				18	
70AS	19	0.582	1+				19	
70AS	20					0.593 1+,2+	20	
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70AS	21	0.625	4+				21	
70AS	22	0.642	3+				22	
70AS	23					0.684 (0)	23	
70AS	24					0.688 (3+,4+)	24	
70AS	25			0.699	3-		25	
70AS	26					0.722 (3)	26	
70AS	27			0.772	3-		27	
70AS	28			0.779	(4-)		28	
70AS	29					0.815 (3)	29	
70AS	30			0.869	6(-)		30	
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70AS	31			0.888	7(-)		31	4.5 NS 3
70AS	32	0.890	1+				32	5.5 NS 10
70AS	33					0.898 (5)	33	
70AS	34					0.928 (2,1)	34	
70AS	35					0.933	35	
70AS	36			0.939	4-		36	

70AS 37						0.939 (2,1)		37
70AS 38						0.950 (0)		38
70AS 39						0.967 (5)		39
70AS 40						0.988 (0,3)		40
-----								
70AS 41						1.004 1,2		41
70AS 42						1.026 (1-,2)		42
70AS 43				1.046	6(-)			43
70AS 44						1.046 (1,2)		44
70AS 45						1.115 (1,2)		45
70AS 46		1.454	6+					46
70AS 47				1.496	7(-)			47
70AS 48		1.651	1+					48
70AS 49		1.676	8(+)					49 55 PS 20
70AS 50						1.726		50
-----								
70AS 51		1.752	9(+)					51 59 PS 30
70AS 52						1.765		52
70AS 53				1.807	7(-)			53
70AS 54						1.809		54
70AS 55				1.983	8(-)			55
70AS 56				2.282	9(-)			56
70AS 57		2.379	9(+)					57
70AS 58		2.467	9(+)					58
70AS 59				2.579	9(-)			59
70AS 60		2.580	10(+)					60 0.53 PS 4
-----								
70AS 61		2.691	9(+)					61
70AS 62		2.733	11(+)					62 0.527 PS 14
70AS 63		2.873	10(+)					63
-----								
S-alpha=		3.035 ( 0.002)						
70AS 64		3.272	11(+)					64
70AS 65				3.301	10(-)			65
70AS 66		3.694	10(+)					66
70AS 67				3.772	11(-)			67
70AS 68		3.792	12(+)					68 0.31 PS LT
70AS 69		4.076	13(+)					69 0.069 PS 7
70AS 70				4.114	(11-)			70
-----								
70AS 71				4.207	12(-)			71 0.76 PS LT
-----								
S-p	=	4.522 ( 0.002)						
70AS 72				4.604	13(-)			72
70AS 73				4.819	14(-)			73 2.2 PS LT
70AS 74				5.365	14(-)			74
70AS 75		5.458	(15+)					75 0.18 PS LT
70AS 76				5.498	15(-)			76
70AS 77				5.884	15(-)			77
70AS 78				6.247	(16-)			78

S-p = 4.522 ( 0.002) -----  
S-n = 9.293 ( 0.032) -----  
S-2p = 11.826 ( 0.002) -----  
S-2n = 21.582 ( 0.002) -----  
S-alpha= 3.035 ( 0.002) -----

S+p = -6.102 ( 0.003)  
S+n = -11.631 ( 0.004)  
S+2p = -9.306 ( 0.002)  
S+2n = -20.039 ( 0.004)  
S+alpha = -3.379 ( 0.006)

gap p = -1.579 ( 0.004)  
gap n = -2.338 ( 0.032)  
gap 2p = 2.520 ( 0.003)  
gap 2n = 1.543 ( 0.005)  
gap alpha = -0.344 ( 0.006)