

$^{72}\text{Kr}$        $Z = 36$        $N = 36$       adopted link      ENSDF link

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

BE = 606.911 ( 0.008) MeV

Qbeta+ = 5.121 ( 0.008) MeV

	Energy T	J+	J-	J-other	T1/2
72KR 1	0.000	0+			1 17.1 S 2
72KR 2	0.671	0+			2 26.3 NS 21
72KR 3	0.710	2+			3 3.1 PS 4
72KR 4	1.321	4+			4
72KR 5				1.849 (3-)	5
72KR 6	2.113	6+			6
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S-alpha=	2.176 ( 0.008)				
72KR 7				2.456 (5-)	7
72KR 8	3.108	8+			8
72KR 9				3.266 (7-)	9
72KR 10				3.797	10
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72KR 11				4.283 (9-)	11
72KR 12	4.293	10+			12
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S-p =	4.727 ( 0.010)				
72KR 13				4.757	13
72KR 14				5.497 (11-)	14
72KR 15	5.648	12+			15
72KR 16				6.049	16
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S-2p =	6.589 ( 0.008)				
72KR 17				6.891 (13-)	17
72KR 18	7.157	14+			18
72KR 19				7.164	19
72KR 20				8.447 (15-)	20
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72KR 21				8.526 (16+)	21
72KR 22				8.608	22
72KR 23				8.745 (16+)	23
72KR 24				8.821 (16+)	24
72KR 25				9.767 (18+)	25
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S-p =	4.727 ( 0.010)				
S-n =	15.685 ( 0.129)				
S-2p =	6.589 ( 0.008)				
S-2n =	28.991 ( 0.210)				
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S-alpha=	2.176 ( 0.008)				
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S+p =	0.640 ( 0.042)				
S+n =	-10.682 ( 0.010)				

S+2p = -1.443 ( 0.074)  
S+2n = -24.534 ( 0.008)  
S+alpha = -2.732 ( 0.035)

gap p = 5.367 ( 0.043)  
gap n = 5.002 ( 0.129)  
gap 2p = 5.146 ( 0.075)  
gap 2n = 4.457 ( 0.210)  
gap alpha = -0.556 ( 0.036)