

$^{223}\text{Ac}$        $Z = 89$        $N = 134$       adopted link      ENSDF link

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

BE = 1712.450 ( 0.007) MeV

Qbeta+ = 0.592 ( 0.007) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-6.783	( 0.010)	-----		
223AC 1			0.000	(5/2-)	1 2.10 M 5
223AC 2			0.013	(3/2-)	2
223AC 3			0.042	(7/2-)	3 0.25 NS LE
223AC 4			0.051	(5/2-)	4 0.25 NS LE
223AC 5			0.065	(5/2+)	5 0.25 NS LE
223AC 6			0.091	(9/2-)	6 0.25 NS LE
223AC 7			0.107	(7/2-)	7 0.25 NS LE
223AC 8			0.110	(7/2+)	8 0.25 NS LE
223AC 9			0.131	(7/2+)	9
223AC 10			0.141	(11/2-)	10
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223AC 11			0.168	(9/2+)	11 0.25 NS LE

S-p = 3.784 ( 0.008)-----  
 S-n = 6.868 ( 0.008)-----  
 S-2p = 10.030 ( 0.009)-----  
 S-2n = 12.849 ( 0.057)-----  
 S-alpha= -6.783 ( 0.010)-----

S+p = -5.119 ( 0.012)  
 S+n = -5.662 ( 0.008)  
 S+2p = -8.046 ( 0.082)  
 S+2n = -12.330 ( 0.008)  
 S+alpha = 6.580 ( 0.010)

gap p = -1.334 ( 0.014)  
 gap n = 1.206 ( 0.012)  
 gap 2p = 1.984 ( 0.083)  
 gap 2n = 0.518 ( 0.058)  
 gap alpha = -0.203 ( 0.014)