

$^{224}\text{Pa}$        $Z = 91$        $N = 133$       adopted link      ENSDF link

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

BE      =    1712.919 ( 0.008) MeV

Qbeta+ =      3.867 ( 0.012) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-7.694 ( 0.010)				
224PA 1			0.000	(5-)	1 0.846 S 20

S-p      =    2.812 ( 0.011)-----

S-n      =    6.547 ( 0.076)-----

S-2p     =    7.338 ( 0.009)-----

S-2n     = 14.345 ( 0.087)-----

S-alpha= -7.694 ( 0.010)-----

S+p      =  -3.779 ( 0.013)

S+n      =  -7.577 ( 0.082)

S+2p     =  -5.623 ( 0.102)

S+2n     = -13.971 ( 0.014)

S+alpha  =    7.503 ( 0.008)

gap p     =  -0.967 ( 0.017)

gap n     =  -1.030 ( 0.112)

gap 2p    =    1.714 ( 0.103)

gap 2n    =    0.374 ( 0.088)

gap alpha =  -0.191 ( 0.012)