

$^{243}\text{Bk}$        $Z = 97$        $N = 146$       adopted link      ENSDF link

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

BE = 1826.753 ( 0.005) MeV

Qbeta+ = 1.508 ( 0.005) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-6.874 ( 0.005)				
243BK	1			0.000 (3/2-)	1 4.6 H 2
243BK	2			0.018 (7/2+)	2
243BK	3			0.067 (9/2+)	3
243BK	4			0.131 (11/2+)	4
243BK	5			2.200	5 5 NS

S-p = 3.403 ( 0.005)-----

S-n = 7.155 ( 0.242)-----

S-2p = 8.823 ( 0.005)-----

S-2n = 13.469 ( 0.241)-----

S-alpha= -6.874 ( 0.005)-----

S+p = -4.500 ( 0.005)

S+n = -6.047 ( 0.015)

S+2p = -7.072 ( 0.245)

S+2n = -13.018 ( 0.005)

S+alpha = 7.464 ( 0.020)

gap p = -1.097 ( 0.007)

gap n = 1.108 ( 0.243)

gap 2p = 1.751 ( 0.245)

gap 2n = 0.451 ( 0.241)

gap alpha = 0.590 ( 0.021)