

$^{240}\text{Bk}$        $Z = 97$        $N = 143$       adopted link      ENSDF link

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

BE = 1805.520 (-0.240) MeV

Qbeta+ = 3.984 ( 0.240) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-7.172	(-0.337)			
240BK 1				0.000	1 4.8 M 8
240BK 2				0.240	2

S-p = 2.727 (-0.283)-----  
 S-n = 6.567 (-0.339)-----  
 S-2p = 7.291 (-0.247)-----  
 S-2n = 14.570 (-0.338)-----  
 S-alpha= -7.172 (-0.337)-----

S+p = -3.667 (-0.340)  
 S+n = -7.764 (-0.340)  
 S+2p = -5.366 (-0.341)  
 S+2n = -14.078 (-0.341)  
 S+alpha = 7.964 (-0.342)

gap p = -0.940 ( 0.442)  
 gap n = -1.197 ( 0.480)  
 gap 2p = 1.925 ( 0.421)  
 gap 2n = 0.492 ( 0.480)  
 gap alpha = 0.792 ( 0.480)