

$^{231}\text{Fr}$        $Z = 87$        $N = 144$       adopted link      ENSDF link

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

BE = 1754.330 ( 0.008) MeV

Qbeta- = 3.864 ( 0.014) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-2.117 ( 0.227)				
231FR	1			0.000 (1/2+)	1 17.6 S 6

S-p = 7.480 ( 0.230)-----

S-n = 5.478 ( 0.010)-----

S-2p = 17.365 ( 0.458)-----

S-2n = 9.730 ( 0.009)-----

S-alpha= -2.117 ( 0.227)-----

S+p = -8.873 ( 0.012)

S+n = -4.079 ( 0.016)

S+2p = -15.350 ( 0.015)

S+2n = -9.303 ( 0.021)

S+alpha = 2.852 ( 0.016)

gap p = -1.393 ( 0.230)

gap n = 1.399 ( 0.019)

gap 2p = 2.014 ( 0.458)

gap 2n = 0.427 ( 0.023)

gap alpha = 0.735 ( 0.228)