

^{257}Rf $Z = 104$ $N = 153$ adopted link ENSDF link

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

BE = 1897.098 (0.011) MeV

Qbeta+ = 3.148 (0.011) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-9.083 (0.013)				
257RF 1				0.000 (1/2+)	1 4.4 S +6-5
257RF 2				0.050 [5/2+]	2
257RF 3				0.075 (11/2-)	3 4.1 S 4
257RF 4				0.148 (13/2-)	4
257RF 5				0.157 (3/2+)	5
257RF 6				0.234 (15/2-)	6
257RF 7				0.334 (17/2-)	7
257RF 8				0.446 (19/2-)	8
257RF 9				0.572 (21/2-)	9
257RF 10				0.711 (23/2-)	10

257RF 11				1.157 (21/2,23/2)	11 139.9 US 77
257RF 12				0.000 (1/2+)	12 4.4 S +6-5

S-p = 3.169 (0.084)-----
 S-n = 6.427 (0.021)-----
 S-2p = 5.524 (0.018)-----
 S-2n = 14.688 (0.255)-----
 S-alpha= -9.083 (0.013)-----

S+p = -1.648 (0.092)
 S+n = -7.593 (0.019)
 S+2p = -3.962 (0.259)
 S+2n = -13.545 (0.011)
 S+alpha = 9.714 (0.021)

gap p = 1.521 (0.125)
 gap n = -1.167 (0.028)
 gap 2p = 1.562 (0.260)
 gap 2n = 1.144 (0.255)
 gap alpha = 0.631 (0.025)