

^{142}Dy $Z = 66$ $N = 76$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 1144.662 (-0.710) MeV

Qbeta+ = 6.390 (0.997) MeV

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

S-alpha=	-3.090	(-0.723)	-----		

142DY	1 0.000	0+			1 2.3 S 3
142DY	2 0.316	(2+)			2
142DY	3 0.799	(4+)			3
142DY	4 1.387	(6+)			4
142DY	5 2.011	(8+)			5
142DY	6			2.639	6
S-p	= 2.918	(-0.718)	-----		
S-2p	= 2.965	(-0.711)	-----		
142DY	7			3.241	7

S-p	= 2.918	(-0.718)	-----		
S-n	= 12.855	(-0.764)	-----		
S-2p	= 2.965	(-0.711)	-----		
S-2n	= 23.542	(-0.825)	-----		
S-alpha=	-3.090	(-0.723)	-----		

S+p	= 0.805	(-0.765)			
S+n	= -10.071	(-0.710)			
S+2p	= -1.002	(-0.724)			
S+2n	= -22.543	(-0.710)			
S+alpha	= 3.423	(-0.710)			

gap p	= 3.723	(1.049)			
gap n	= 2.784	(1.043)			
gap 2p	= 1.963	(1.015)			
gap 2n	= 0.999	(1.088)			
gap alpha	= 0.333	(1.014)			