

$^{166}\text{Ir}$        $Z = 77$        $N = 89$       adopted link      ENSDF link

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

BE = 1292.974 (-0.166) MeV

Qbeta+ = 12.056 ( 0.167) MeV

	Energy T	J+	J-	J-other	T1/2
S-alpha=	-6.698	(-0.232)			
S-p =	-1.121	(-0.234)			
166IR	1			0.000 (2-)	1 10.5 MS 22
166IR	2			0.172 (9+)	2 15.1 MS 9

S-p = -1.121 (-0.234)-----  
 S-n = 9.934 (-0.234)-----  
 S-2p = 0.481 (-0.175)-----  
 S-2n = 21.974 (-0.368)-----  
 S-alpha= -6.698 (-0.232)-----

S+p = -0.608 (-0.373)  
 S+n = -11.768 (-0.167)  
 S+2p = 1.390 (-0.375)  
 S+2n = -21.433 (-0.175)  
 S+alpha = 7.170 (-0.238)

gap p = -1.729 ( 0.440)  
 gap n = -1.834 ( 0.288)  
 gap 2p = 1.871 ( 0.414)  
 gap 2n = 0.541 ( 0.407)  
 gap alpha = 0.472 ( 0.332)