

$^{166}\text{Eu}$        $Z = 63$        $N = 103$       adopted link      ENSDF link

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

BE = 1337.296 (-0.166) MeV

Qbeta- = 7.626 ( 0.166) MeV

	Energy T	J+	J-	J-other	T1/2
166EU	1			0.000	1 1.7 S 3

S-p = 10.531 (-0.369)-----  
 S-n = 4.087 (-0.166)-----  
 S-2p = 23.000 (-0.368)-----  
 S-2n = 9.656 (-0.166)-----  
 S-alpha= 3.118 (-0.364)-----

S+p = -11.320 (-0.166)  
 S+n = -5.050 (-0.373)  
 S+2p = -20.614 (-0.166)  
 S+2n = -8.720 (-0.375)  
 S+alpha = -2.398 (-0.378)

gap p = -0.789 ( 0.405)  
 gap n = -0.963 ( 0.408)  
 gap 2p = 2.386 ( 0.403)  
 gap 2n = 0.936 ( 0.410)  
 gap alpha = 0.720 ( 0.525)