

^{147}Pr $Z = 59$ $N = 88$ adopted link ENSDF link

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

BE = 1215.769 (0.016) MeV

Qbeta- = 2.703 (0.016) MeV

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

S-alpha=	-0.302 (0.017)				
147PR 1				0.000 (3/2+)	1 13.44 M 10
147PR 2				0.003 (5/2+)	2
147PR 3				0.028 (7/2+)	3
147PR 4				0.093 (5/2+)	4 12 NS
147PR 5				0.154	5
147PR 6				0.247 (9/2+)	6
147PR 7				0.292 (5/2+)	7
147PR 8				0.362 (7/2-)	8
147PR 9				0.385 (11/2-)	9
147PR 10				0.452 (3/2-,5/2-)	10

147PR 11				0.467 (3/2-,5/2-)	11
147PR 12				0.471 (9/2+)	12
147PR 13				0.546 (9/2+)	13
147PR 14				0.608 (7/2-)	14
147PR 15				0.638 (3/2,5/2,7/2-)	15
147PR 16				0.641 (15/2-)	16
147PR 17				0.701 (5/2-)	17
147PR 18				0.716 (5/2+)	18
147PR 19				0.749 (5/2+,7/2)	19
147PR 20				0.784	20

147PR 21				0.795 (7/2+)	21
147PR 22				0.803 (5/2+)	22
147PR 23				0.932 (3/2,5/2,7/2+)	23
147PR 24				0.952 (5/2+,7/2+)	24
147PR 25				0.961 (5/2+,7/2)	25
147PR 26				0.978 (7/2-)	26
147PR 27				1.046 (3/2-,5/2)	27
147PR 28				1.059 (7/2-,9/2+)	28
147PR 29				1.065 (19/2-)	29
147PR 30				1.068 (7/2+)	30

147PR 31				1.160 (3/2,5/2,7/2-)	31
147PR 32				1.170 (7/2+)	32
147PR 33				1.173 (3/2-,5/2,7/2-)	33
147PR 34				1.194 (5/2+,7/2+)	34
147PR 35				1.267 (5/2+,7/2)	35
147PR 36				1.286 (3/2-,5/2,7/2-)	36

147PR	37				1.601	(23/2-)	37
147PR	38				1.725	(5/2+,7/2+)	38
147PR	39				1.846	(5/2,7/2-)	39
147PR	40				1.856	(3/2-,5/2,7/2)	40

147PR	41				1.865	(3/2-,5/2-,7/2-)	41
147PR	42				1.944	(7/2-)	42
147PR	43				2.061	(5/2,7/2)	43
147PR	44				2.135	(7/2-)	44
147PR	45				2.183	(7/2-)	45
147PR	46				2.209	(27/2-)	46
147PR	47				2.250	(7/2-)	47
147PR	48				2.870	(31/2-)	48

S-p = 7.107 (0.022)-----
 S-n = 6.842 (0.038)-----
 S-2p = 17.187 (0.020)-----
 S-2n = 11.961 (0.017)-----
 S-alpha= -0.302 (0.017)-----

S+p = -9.253 (0.016)
 S+n = -5.163 (0.022)
 S+2p = -15.198 (0.016)
 S+2n = -11.738 (0.019)
 S+alpha = -0.367 (0.017)

gap p = -2.146 (0.027)
 gap n = 1.679 (0.044)
 gap 2p = 1.989 (0.026)
 gap 2n = 0.223 (0.026)
 gap alpha = -0.669 (0.024)