

^{143}Pr $Z = 59$ $N = 84$ adopted link ENSDF link

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

BE = 1191.108 (0.002) MeV

Qbeta- = 0.934 (0.002) MeV

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

S-alpha=	-1.729	(0.002)	-----		
143PR 1	0.000	7/2+			1 13.57 D 2
143PR 2	0.057	5/2+			2 4.14 NS 5
143PR 3				0.298	3
143PR 4	0.351	3/2+			4 59 PS 10
143PR 5	0.490	7/2+			5
143PR 6				0.614	6
143PR 7	0.722	5/2+			7
143PR 8				0.740	8
143PR 9				0.787	9
143PR 10				0.848	10

143PR 11				0.938	11
143PR 12				1.014	12
143PR 13				1.060	13
143PR 14				1.157	14
143PR 15				1.161	15
143PR 16				1.236	16
143PR 17				1.382	17
143PR 18				1.397	18
143PR 19				1.526	19
143PR 20				1.980	20

143PR 21				2.141	21
143PR 22				2.512	22

S-p = 5.824 (0.003)-----

S-n = 7.353 (0.002)-----

S-2p = 14.716 (0.005)-----

S-2n = 13.196 (0.002)-----

S-alpha= -1.729 (0.002)-----

S+p = -7.969 (0.002)

S+n = -5.754 (0.003)

S+2p = -12.777 (0.003)

S+2n = -12.701 (0.007)

S+alpha = 1.601 (0.002)

gap p = -2.145 (0.004)

gap n = 1.599 (0.004)
gap 2p = 1.939 (0.006)
gap 2n = 0.496 (0.008)
gap alpha = -0.128 (0.003)