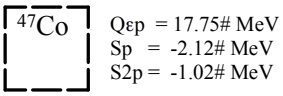
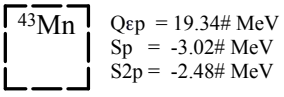
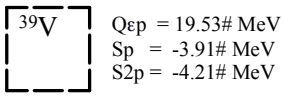
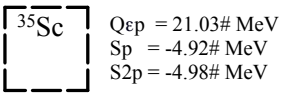


Odd Z
Tz = -7/2







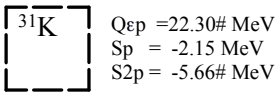


Fig. 1: Known experimental values for heavy particle emission of the odd T_z= -7/2 nuclei.

Last updated 3/17/23

Table 1
Observed and predicted β-delayed particle emission from the odd-Z, T_z = -7/2 nuclei

Nuclide	J^π	$T_{1/2}$	Q_ε	$Q_{\varepsilon p}$	$BR_{\beta p}$	$Q_{\varepsilon 2p}$	$Q_{\varepsilon 3p}$	$Q_{\varepsilon \alpha}$	Experimental
^{31}K		<10 ps	22.94(36)#	22.30(30)#		22.78(30)#	19.54(30)#	14.35(50)#	**[2019Ko18]**
^{35}Sc			21.91(45)#	21.03(45)#		21.91(40)#	18.57(40)#	13.35(45)#	
^{39}V			20.07(45)#	19.53(45)#		21.13(40)#	18.12 (40)#	14.96(45)#	
^{43}Mn			19.34(45)#	17.70(45)#		18.49(40)#	16.03(40)#	12.45(45)#	
^{47}Co			17.75(78)#	15.75(61)#		15.55(60)#	12.56(60)#	10.17(63)#	

Table 2
Particle emission from the odd-Z, T_z = -7/2 nuclei

Nuclide	S_p	BR_{1p}	S_{2p}	Q_α	Experimental
^{31}K	-2.15(15)*	100%	-5.66(35)#		
^{35}Sc	-4.92(50)#		-4.980(45)#	-9.59(50)#	
^{39}V	-3.91(50)#		-4.21(50)#	-6.96(57)#	
^{43}Mn	-3.02(50)#		-2.48(45)#	-7.63(57)#	
^{47}Co	-2.12(67)#		-1.02(67)#	-9.18(72)#	

* From [2019Ko18], [2021Wa16] lists -4.90(35)#.

Table 3
direct proton emission from ^{31}K*, $T_{1/2}$ = <10 ps, BR_p =100%.

E_p(c.m.)	I_p(abs)	$E_{daughter}$(^{30}Ar)
2.15(15)	100%	0.0

* All values from [2019Ko18].

References used in the Tables

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