<u>^{21}Ne(p,p),(p,p$'$)</u>   **1975Ch15**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia	NDS 127, 69(2015)	1-Apr-2015

$J^\pi(^{21}\mathrm{Ne})=3/2^+$.

Target: Enriched (91%) ^{21}Ne target with 3.3% ^{20}Ne and 5.7% ^{22}Ne isotopes; Projectile: P, E=0.6-2.0 MeV; The reaction particles were detected simultaneously by eight surface barrier detectors placed at angles between 40° and 160° in the laboratory system. Measured proton spectrum, deduced resonance energies, L, Γ_p.

<u>^{22}Na Levels</u>

E(level)[†]	J^{π}[‡]	L	Γ_p[#]	Comments
7408.6 *5*	$(1,2)^+$	0	<2[@]	
7471.7 *12*	$(1,2)^+$	0	2	
7599 *3*	$(1 \text{ to } 3)^-$	1	2.5	
7778.2 *10*	$(1 \text{ to } 3)^-$	1	<2[@]	
7800.6 *10*	$(1,2)^+$	0	1.8	
7889.1 *11*	$(0 \text{ to } 4)^+$	2	<0.5[&]	
7919 *2*	1^-	1	23	E(level): Possible doublet (1975Ch15).
7977 *2*	$(1 \text{ to } 3)^-$	1	2	
8101 *4*	$(1,2)^+$	0	<4[@]	
8114 *2*	$2^-,3^-$	1	0.6	
8165 *2*	3^-	1	15	
8211 *2*	2^+	0	4.5	
8234 *2*	2^+	0	4.4	
8288 *2*	$(1 \text{ to } 3)^-$	1	5	
8328 *2*	$1^-,2^-$	1	2	
8436 *2*	$(1 \text{ to } 3)^-$	1	8	
8496 *2*	2^+	0	29	
8538 *2*	$(1 \text{ to } 3)^-$	1	<8[@]	
8567 *2*	$(0 \text{ to } 4)^+$	2	<4.5[@]	
8602 *2*	$(1 \text{ to } 3)^-$	1	2.1	
8636 *2*	3^-	1	5	

[†] Resonance energies from Adopted Levels.
[‡] Assignment in 1975Ch15.
[#] In units of keV.
[@] The upper limit corresponds to the proposed upper spin value.
[&] For weak widths only an upper limit is given.