^{9}Be(^{20}Ne,^{21}Naγ)   2007Ga58

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	R. B. Firestone	NDS 127, 1 (2015)	15-Jan-2015

E=63 MeV/nucleon ^{20}Ne beam produced by the fragmentation of ^{36}Ar beam at 150 MeV/nucleon with ^{9}Be target at the Coupled Cyclotron at NSCL facility. A1900 fragment separator used to select particles. The secondary target was positioned at the focal plane of S-800 spectrograph. Measured γ-rays, $\gamma(^{21}$Na) coin using segmented germanium (SeGA) array of 32 HPGe detectors and particle detection. DW analysis, shell-model description.

^{21}Na Levels

E(level)	$J^{\pi\dagger}$	σ (mb)	Comments
0	$3/2^+$	<0.06	
330 3	$5/2^+$	1.59 25	
1712 7	$7/2^+$	0.20 5	
2420 10	$1/2^+$	$\leq$0.12	E(level): 10 keV uncertainty assumed by the evaluator.
4294	$5/2^+$		
4468	$3/2^+$		

† Based on DWBA calculations and C^{2}S from the shell model.

$\gamma(^{21}$Na)

$E_\gamma^{\dagger}$	E_i(level)	J_i^π	E_f	J_f^π
330 3	330	$5/2^+$	0	$3/2^+$
1382 6	1712	$7/2^+$	330	$5/2^+$
2420 10	2420	$1/2^+$	0	$3/2^+$

† As implied from Fig. 2 of 2007Ga58.

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Level Scheme

$^{21}_{11}$Na$_{10}$

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