

$^1\text{H}(^{28}\text{Ne}, ^{28}\text{Ne}'\gamma)$  2006Do09,2007E110

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 114, 1189 (2013)	1-Apr-2013

2006Do09,2007E110:  $^{28}\text{Ne}$  is obtained from primary  $^{40}\text{Ar}$  beam,  $E=94$  MeV/nucleon, fragmentation on a  $^{181}\text{Ta}$  target. Fragments were separated by the RIKEN projectile fragmentation separator. Secondary beam of  $^{28}\text{Ne}$ ,  $E(^{28}\text{Ne})=51.3$  MeV/nucleon, bombarded liquid hydrogen target.  $\gamma$  rays were measured using an array of 146 NaI (TI) detectors and particles using a 3-layer silicon detector. Measured  $E_\gamma$ . Deduced a neutron transition matrix element  $M_n=13.8$  fm<sup>2</sup> 37.

 $^{28}\text{Ne}$  Levels

E(level)	$J^\pi$ †
0.0	$0^+$
1319 22	$2^+$
3030 30	$(4^+)$

† From Adopted Levels.

 $\gamma(^{28}\text{Ne})$ 

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
1319 22	1319	$2^+$	0.0	$0^+$
1711 30	3030	$(4^+)$	1319	$2^+$

 $^1\text{H}(^{28}\text{Ne}, ^{28}\text{Ne}'\gamma)$  2006Do09,2007E110Level Scheme