

${}^{11}\text{B}(\text{p,t})$  1988Aj01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu, J. L. Godwin, et al.		NP A745 155 (2004)	31-Mar-2004

1970Sa05:  ${}^{11}\text{B}(\text{p,t})$  E not given.  ${}^9\text{B}$  levels deduced J,  $\pi$ .

1971Ha10:  ${}^{11}\text{B}(\text{p,t})$  E=45 keV, measured  $\sigma(E_t, \theta)$ ,  $\sigma(E({}^3\text{He}), \theta)$ .  ${}^9\text{B}$  deduced levels J,  $\pi$ , T, L, isobaric analogs.

1971Ka04:  ${}^{11}\text{B}(\text{p,t})$  E=40, 44, 50 MeV, analyzed  $\sigma(\theta)$ . Zero-range DWBA.

1974Be66:  ${}^{11}\text{B}(\text{p,t})$  E=46.5 MeV, measured  $\sigma(E_t)$ .  ${}^9\text{B}$  deduced levels, new mass quartet, mass excesses.

1974Ka15:  ${}^{11}\text{B}(\text{p,t})$  E=42 MeV, measured  $\sigma(E_t, E({}^3\text{He}), E_{p'})$ , Q.  ${}^9\text{B}$  deduced levels.

1977Av01:  ${}^{11}\text{B}(\text{p,t})$  E=660 MeV, measured absolute  $\sigma$ .

 ${}^9\text{B}$  Levels

E(level)	$J^\pi$	$T_{1/2}$	Comments
0.0	$3/2^-$		T=1/2
$2.36 \times 10^3$	$5/2^-$		T=1/2
$7.0 \times 10^3$			
$12.06 \times 10^3$			
$14.01 \times 10^3$			
14655.0 25	$3/2^-$		T=3/2 E(level): from (1974Ka15). Deduced mass excess of 27071.1 keV 23. This value is related to the accepted ${}^{11}\text{C}$ mass excess and level energies and ${}^9\text{B}$ mass excess, which have varied since the original published value. At that time mass excesses for ${}^{11}\text{C}$ and ${}^9\text{B}$ were 10650.2 keV 11 and 12415.7 keV 9, respectively (1971Wa37). The level energy that was deduced in (1974Ka15) was 14655.0, but this value has changed.
$15.29 \times 10^3$ 4			E(level): from (1971Ha10).
$15.58 \times 10^3$ 4			E(level): from (1971Ha10).
$16.02 \times 10^3$			
17076 4		22 keV 5	E(level); $\Gamma$ : from (1974Be66).
$17.19 \times 10^3$			
$17.64 \times 10^3$			