

$^{10}\text{B}(\text{t,p}): \text{res}$ 

| <u>Type</u>     | <u>Author</u>                              | <u>History</u> | <u>Citation</u>  | <u>Literature Cutoff Date</u> |
|-----------------|--------------------------------------------|----------------|------------------|-------------------------------|
| Full Evaluation | J. H. Kelley, C. G. Sheu and J. E. Purcell |                | NDS 198,1 (2024) | 1-Aug-2024                    |

[1981Ci06](#):  $^{10}\text{B}(\text{t,p})$  E=0.9,1.1 MeV; measured  $\sigma(\theta)$ ; deduced evidence for different reaction mechanisms. DWBA.

[1984GuZY](#):  $^{10}\text{B}(\text{t,p})$  E=3-12 MeV; measured  $\sigma(E)$ .  $^{13}\text{C}$  deduced resonances,  $\Gamma$ .

[1985Ab10](#):  $^{10}\text{B}(\text{t,p})$  E=3-12 MeV; measured  $\sigma(E)$ .

Theory:

[1970Ma38](#):  $^{10}\text{B}(\text{t,p})$  E=5-20 MeV; calculated  $\sigma(\theta)$ .

 $^{13}\text{C}$  Levels

| <u>E(level)<sup>†</sup></u> | <u><math>\Gamma</math></u> | <u><math>E_t(\text{res})</math> (MeV)</u> | <u>Comments</u>                                                                                                                                                                                                                                                                           |
|-----------------------------|----------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 28025                       | $\approx 1$ MeV            | 5.4                                       | E(level), $\Gamma$ , $E_t(\text{res})$ (MeV): From ( <a href="#">1984GuZY</a> ).<br>A broad structure is reported in the activation cross section at $E_t(\text{res}) \approx 5.5$ MeV,<br>$\Gamma = 2.7$ MeV and $\sigma_{\text{res}}(\text{max}) = 17$ mb ( <a href="#">1985Ab10</a> ). |

<sup>†</sup> Deduced using  $E_t(\text{res})$  and  $^{10}\text{B}$ ,  $^3\text{H}$  and  $^{13}\text{C}$  masses from ([2021Wa16](#): AME-2020).  $E_x = S(^3\text{H}) + E_{\text{c.m.}}$  (relativistic).