## C(<sup>6</sup>He,<sup>5</sup>H) 2003Me11,2003Me18

History					
Туре	Author	Citation	Literature Cutoff Date		
Full Evaluation	J. E. Purcell, C. G. Sheu	ENSDF	28-Feb-2019		

2003Me11,2003Me18: This experiment was performed at GSI. The primary <sup>18</sup>O beam with energy 340 MeV/nucleon on a Be target produces a secondary <sup>6</sup>He beam with energy 240 MeV/nucleon which strikes a C target. The coincidence detection of a triton and two neutrons allowed the <sup>5</sup>H spectrum to be determined by the invariant mass method. The <sup>5</sup>H spectrum had a resonance structure at  $E_{res} \approx 3$  MeV above the <sup>3</sup>H+2n threshold with a width  $\Gamma \approx 6$  MeV and  $J^{\pi} = 1/2^+$ . These results are also discussed in (2004Ch16,2004Wo10).

In (2003Sh23) a complete <sup>3</sup>H+*n*+*n* three-body dynamical model investigation is carried out that finds  $E_{g.s.}$ =2.5-3.0 MeV and  $\Gamma_{g.s.}$ =3-4 MeV.

## <sup>5</sup>H Levels

E(level)	$J^{\pi \dagger}$	Г	$E_{res}(^{3}H+2n)(MeV)$
0	$(1/2^+)$	≈6 MeV	≈3

<sup>†</sup> From systematics.

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