## $^{13}$ **C**( $^{13}$ **N**, $^{13}$ **C**)

History

Type Author Citation Literature Cutoff Date
Full Evaluation J. H. Kelley, C. G. Sheu and J. E. Purcell NDS 198,1 (2024)

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1996St05:  $^{13}$ C( $^{13}$ N, $^{13}$ C) E=57,105 MeV; measured  $\sigma(\theta=0^{\circ})$ . Populated  $J^{\pi}=1/2^{-}$  ground states along with single and double excitation of the  $\approx$ 3.5 MeV  $^{13}$ N and  $^{13}$ C  $3/2^{-}$  states. Analyzed GT/Fermi strengths. See also (1997Sh11). *Theory:* 

1993Kr01:  $^{13}$ C( $^{13}$ N, $^{13}$ C)  $E_{c.m.}$ =7.5-10 MeV; calculated  $\sigma(\theta)$  analyzed effective n-p interaction.

1997Be33: E=105 MeV/nucleon; analyzed heavy-ion charge-exchange reactions.

2020Li51: Eikonal model analysis of  $\sigma(\theta)$  at E=105 MeV/nucleon.

<sup>13</sup>N Levels

E(level) 
$$J^{\pi \dagger}$$
  
0  $1/2^-$   
3.50×10<sup>3</sup>  $3/2^-$ 

<sup>†</sup> From Adopted Levels.