³²S(¹³C,¹²C) **1976We21**

History				
Туре	Author	Citation	Literature Cutoff Date	
Full Evaluation	Jun Chen and Balraj Singh	NDS 199,1 (2025)	30-Sep-2024	

1976We21: E=36 MeV ¹³C beam was produced from the University of Texas E(n) tandem. Target was about 6 μ g/cm² Li₂S evaporated onto a carbon backing. Reaction products were detected with four silicon surface-barrier detectors and a Δ E-E silicon telescope. Measured $\sigma(\theta)$. Deduced J, π , spectroscopic factor for g.s. and 841 level from DWBA analysis. 1983Os08: DWBA calculation of $\sigma(\theta)$.

³³S Levels

Spectroscopic factor C²S: C²S= $\sigma(\theta)_{exp}/\sigma(\theta)_{DWBA}/(N\times g)$, where N is the normalization factor and g=(2J_f+1)/(2J_i+1).

E(level) [†]	C^2S^{\dagger}	
0	1.64	
841	0.48	

[†] From 1976We21.