⁹Be(¹³C, α^{13} C) **2009Mi23**

	History		
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	C. G. Sheu, J. H. Kelley, J. Purcell	ENSDF	5-Aug-2021

2009Mi23: XUNDL dataset compiled by TUNL, 2009.

The authors used resonant particle spectroscopy to analyze the center of mass energy spectrum of ${}^{13}C + \alpha$ particles detected following ${}^{9}Be({}^{13}C, {}^{13}C+X)$ reactions at $E({}^{13}C)=90$ MeV. The ${}^{13}C$ ions were measured in a position sensitive ΔE -E telescope, while the α -particles were detected in an array of position sensitive ΔE detectors; α -particles are the only stable particles that can be in coincidence with ${}^{13}C$. The ${}^{13}C$ ground state and ${}^{13}C^*(\approx 3.7 \text{ MeV})$ participate in the reaction.

¹⁷O Levels

E(level) [†]	Comments
10.8×10^3	
12.0×10^{3} 13.6×10^{3}	E(level): broad: likely unresolved multiplet including $^{17}O^{*}(11.82, 12.00, 12.22, 12.42 \text{ MeV})$. E(level): strongest population of this state is consistent with configuration= $^{16}O(6^+, 16.29 \text{ MeV})\otimes_{10,2}$ in a weak
	coupling scheme.
14.9×10^{3} 19.0×10^{3}	The evaluator associates this level with the $E_x=19.6$ MeV level.

[†] From (2009Mi23).

¹⁷₈O₉