

$^{64}\text{Ni}(t, ^3\text{He})$ 1972FI17

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen		NDS 178, 41 (2021).	12-Nov-2021

1972FI17: E(t)=23.5 MeV, FWHM=50 keV. Measured cross sections, magnetic spectrometer. Spectra measured at 20°, 25° and 30°.

 ^{64}Co Levels

The Q value determined in this work deviates by 5σ (i.e. about 100 keV) from the value based on mass excess measurement for ^{64}Co in 2008BI05 using LEBIT at NSCL-MSU.

<u>E(level)</u>	<u>$d\sigma/d\Omega$ ($\mu\text{b}/\text{sr}$)[†]</u>	<u>E(level)</u>	<u>$d\sigma/d\Omega$ ($\mu\text{b}/\text{sr}$)[†]</u>	<u>E(level)</u>	<u>$d\sigma/d\Omega$ ($\mu\text{b}/\text{sr}$)[†]</u>
0	7.3	867 15	8.0	1541 15	2.2
176? 30	0.8	953 15	4.3	1687 15	1.7
296 15	2.0	1067? 15	1.6	1806? 30	1.4
463 15	3.9	1144 15	9.7	1906 15	8.4
703 15	2.9	1300 15	1.4	2051 15	5.5
804 15	6.7	1423 15	1.7		

[†] Average of 20°, 25° and 30°. Uncertainty is 35% in absolute cross sections and 10% in relative cross sections.