

$^{54}\text{Fe}(^{13}\text{C},^{12}\text{C}),(^{18}\text{O},^{17}\text{O})$ 1979Po16,1977Pe08,1973HaWN

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Huo Junde	NDS 109, 787 (2008)	30-Apr-2007

1979Po16: $^{54}\text{Fe}(^{13}\text{C},^{12}\text{C})$ $E(^{13}\text{C})=16\text{-}32$ MeV; particles of interest were detected in a silicon position-sensitive detector at the focal plane of the spectrometer (FWHM 120 keV), DWBA analysis.

1977Pe08: $^{54}\text{Fe}(^{18}\text{O},^{17}\text{O})$ $E(^{18}\text{O})=50$ MeV; measured $\sigma(E,\theta)$, 20° to 80° , particle identification with position-sensitive solid state detectors; DWBA analysis.

1973HaWN: $^{54}\text{Fe}(^{13}\text{C},^{12}\text{C})$ $E(^{13}\text{C})=45$ MeV; reaction product was detected by solid state ΔE telescopes; finite-range DWBA analysis.

All data are from 1977Pe08.

 ^{55}Fe Levels

E(level)	J^π [†]	S	Comments
0.0	$3/2^-$	0.88	S: others: S=0.56 (1979Po16), S=0.90 35 (1973HaWN).
410	$1/2^-$	0.62	S: other: S=0.65 60 (1973HaWN).

[†] From Adopted Levels.