^{50}Cr(^{14}C,^{16}O) 1979Pe08

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 179, 1 (2022)	30-Nov-2021

1979Pe08: E=51 MeV ^{14}C beam of 200 nA was produced from the Van de Graaff accelerator at Los Alamos Scientific Laboratory. Target was about 100 μg/cm^2 self-supporting ^{50}Cr. Reaction products were momentum-analyzed with a Q3D magnetic spectrograph with a helical cathode proportional counter on the focal plane. Measured σ(E(^{16}O),θ). Deduced levels, J^π, L, spectroscopic factors from DWBA analysis.

^{48}Ti Levels

E(level)	J^π	L[‡]	Spectroscopic factors[†‡]
0	0^+	0	0.92
980	2^+	2	0.60

[†] $NC^2S_1C^2S_2$ values.
[‡] Extracted from the comparison of $\sigma(\theta)$ distributions with the DWBA predictions.