^{52}Cr(^{12}C,^{12}C′),(^{13}C,^{13}C′) 1979Fu01,1979Po16,1976Le12

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Yang Dong, Huo Junde	NDS 128, 185 (2015)	10-Jul-2015

1979Fu01: (^{13}C,^{13}C′), E=105 MeV, measured $\sigma(\theta)$, a triple detector telescope comprising two ΔE detectors of thickness 28.7 μm and 27.8 μm, and a stopping detector (E) of thickness 900 μm, an anticoincidence detector mounted behind the E-detector, DWBA analysis.

1979Po16 and 1976Le12: (^{12}C,^{12}C′),(^{13}C,^{13}C′), E=16-32 MeV, 18-35 MeV, respectively, measured $\sigma(\theta)$, a double focusing magnetic spectrometer with a silicon position sensitive detector at the focal plane, DWBA analysis.

All data are from 1979Fu01, except as noted.

^{52}Cr Levels

E(level)	Comments
0.0	
1.43×10^3	β_2=0.18 *4* (1979Fu01) with B(E2) taken as 0.063 (insensitive to actual value within 20%). β_2=0.25 (ion-ion nuclear potential) (1979Po16) with B(E2)=0.061 *5*.
4.56×10^3	