

$^{36}\text{S}(^{14}\text{C},^{13}\text{C}),(^{18}\text{O},^{17}\text{O}\gamma)$ 1984Ma49

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	John Cameron, Jun Chen and Balraj Singh, Ninel Nica		NDS 113, 365 (2012)	15-Jan-2012

1984Ma49: E(^{14}C)=71 MeV, E(^{18}O)=80 MeV; target 80% enriched; measured ^{13}C and ^{17}O particle spectra, E γ , ^{17}O - γ coin, Q3D magnetic spectrograph.

 ^{37}S Levels

E(level) [†]	Comments
0	
647 3	$\sigma=40.0$ mb/sr at 10° in ($^{14}\text{C},^{13}\text{C}$). E(level): from ($^{18}\text{O},^{17}\text{O}\gamma$). Other: 662 15 in ($^{14}\text{C},^{13}\text{C}$).

[†] Group of prominent unresolved levels near 5 MeV excitation is seen in ($^{14}\text{C},^{13}\text{C}$) reaction.

 $\gamma(^{37}\text{S})$

E γ [†]	E _i (level)	E _f
^x 616 [‡]		
647 3	647	0
^x 1261 [‡]		

[†] From $\gamma(^{17}\text{O})$ coin in ($^{18}\text{O},^{17}\text{O}\gamma$).

[‡] Connected with deexcitation of unresolved group of levels near 5 MeV.

^x γ ray not placed in level scheme.

 $^{36}\text{S}(^{14}\text{C},^{13}\text{C}),(^{18}\text{O},^{17}\text{O}\gamma)$ 1984Ma49Level Scheme