## $^{12}$C(n,$\alpha$),$^{12}$C(n,n$\alpha$)    1974Aj01,1981Gu12

### History

| Type | Author | Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | J. H. Kelley, C. G. Sheu, J. L. Godwin, et al. | NP A745 155 (2004) | 31-Mar-2004 |

1967Ko27: $^{12}$C(n,$\alpha$) E=14.1 MeV, measured $\sigma$.

1969Hs02, 1973Pe19: $^{12}$C(n,$\alpha$) E=14.1 MeV, measured $\sigma(E_{\alpha},\theta)$.

1969Ki02: $^{12}$C(n,$\alpha$) E=14.1 MeV, measured $\sigma(E_{\alpha},\theta)$. $^{9}$Be deduced levels.

1971Fa04: $^{12}$C(n,$\alpha$) E=14 MeV, measured $\sigma$.

1971Lo06: $^{12}$C(N,$\alpha_0$) E=14 MeV, measured $\sigma(E_{\alpha},\theta)$.

1971Sa31: $^{12}$C(n,$\alpha$) E=14.8-18.8 MeV, measured $\sigma(E,\theta)$.

1984Ha48: $^{12}$C(n,$\alpha$) E=14.1 MeV, measured $\sigma(\theta,E_{\alpha})$.

1986Sh33: $^{12}$C(n,$\alpha$) E=threshold−20 MeV, compiled evaluated neutron induced reaction data.

1991Br09: $^{12}$C(n,$\alpha$) E=7.4-11 MeV, measured reaction $\sigma$, sum for 3$\alpha$, breakup.

1981Gu12: $^{12}$C(n,n$\alpha$) E=14.7 MeV, measured $\sigma(E_{N},\theta)$, integrated $\sigma$. $^{9}$Be level deduced neutron emission probability.

1983An02: $^{12}$C(n,n$\alpha$) E=10-34 MeV, measured $\sigma(E)$, $\alpha$-$\alpha$-, $\alpha$-$\alpha$-$\alpha$-coin. Deduced reaction mechanism.

### $^{9}$Be Levels

| E(level) |
|---|
| 0.0 |
| $1.7 \times 10^{3}$ |
| $2.4 \times 10^{3}$ |
| $3.1 \times 10^{3}$ |
| $6.8 \times 10^{3}$ |