^{9}**Be(^{17}C,X)**   **2001Ma08**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, G. C. Sheu	ENSDF	01-May-2017

2001Ma08,2001Ma21: E(^{17}C)≈62 MeV/nucleon, ^{9}Be target surrounded by 11 NaI detectors; σ_{1n}=115 mb *14*. Measured parallel momentum distribution widths corresponding to population of different ^{16}C states by analyzing coincidences with γ rays. Deduced (22 *11*)% of 1n-removal events populate ^{16}C$_{g.s.}$(J$^{\pi}$=0^{+}) via *l*=2, (52 *8*)% populate ^{16}C*(1.77 MeV: J$^{\pi}$=2^{+}) via *l*=0((14 *6*)%) and *l*=2((38 *8*)%) and (29 *5*)% populate states near ^{16}C*(4.1 MeV: J$^{\pi}$≈2,3$^{(+)}$,4^{+}) via *l*=0 ((2 *2*)%) and *l*=2 ((27 *5*)%). Their analysis of the ^{17}C$_{g.s.}$ J$^{\pi}$ value, based on *l*=2 feeding of ^{16}C$_{g.s.}$ with no *l*=0 component, indicates J$^{\pi}$(^{17}C)=3/2^{+}.

^{17}C Levels

E(level)	J$^{\pi}$
0	3/2^{+}