
 $^{246}\text{Cm}(\text{t,p})$ 1977FI06

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	M. J. Martin	NDS 122, 377 (2014)	1-Sep-2014

E=17 MeV (1977FI06).

Observation of strong transition strengths to the g.s. and to the first excited 0^+ state in this two-neutron stripping reaction was interpreted by 1977FI06 as an indication of a gap at N=152 in the single-particle orbitals that is larger than the pairing gap.

 ^{248}Cm Levels

<u>E(level)</u>	<u>J^π</u>	<u>L^\dagger</u>	<u>Comments</u>
0.0	0^+	0	Population of ^{248}Cm g.s. was observed to be 1.6 times stronger than the ^{246}Cm g.s. population in (t,p) reaction.
43	2^+	2	
1084	0^+	0	Large cross section for the 1084-keV level was observed. The strength was 36% of that for the g.s. (1977FI06). This level was interpreted by 1977FI06 as a two-particle two-hole-pair vibrational state.

† From angular distribution. $\sigma(\theta)$'s were measured between $\theta=10^\circ$ and 60° in 5° intervals (1977FI06).