^{239}Pu(d,t) 1973Fr01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 127, 191 (2015)	1-Jun-2014

Q(d,t)=604 *10*.

E=12 MeV, FWHM≈15 keV, estimated by the evaluators.

The ratio of the cross sections for populations of the $K^{\pi}=0^{+}$ excited states to those for the population of the ground state were compared, and these ratios were found to be of the same order of magnitude as the ratios for the (p,t) reaction. It was suggested by 1973Fr01 that weak pairing between oblate and prolate levels would not explain the comparable relative populations of the $K^{\pi}=0^{+}$ states in (p,t) and (d,t) reactions.

^{238}Pu Levels

E(level)	J^{π}[†]
0	0^{+}
44	2^{+}
146	4^{+}
943	0^{+}
984	2^{+}
1228	0^{+}
1264	2^{+}

[†] Adopted values.