^{62}Ni(^{7}Li,^{6}He) 1974Wh08

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 196,17 (2024)	30-Sep-2023

1974Wh08 (also 1974Wh04): E=28.1, 30.1, 32.1 MeV ^{7}Li beams were produced from the Florida State University super FN tandem Van de Graaff accelerator. Target was 80-100 μg/cm^2 98.75% enriched ^{62}Ni on a thin carbon backing. Reaction products were detected with a ΔE-E solid-state counter telescope. Measured $\sigma(\theta)$. Deduced levels, J, π, L-transfers, spectroscopic factors from DWBA analysis.

^{63}Cu Levels

E(level)[†]	Jπ[#]	C^{2}S[‡]
0	3/2$^-$	2.4
670	1/2$^-$	1.4
960	5/2$^-$	2.8
1330	7/2$^-$	0.80
1410	5/2$^-$	3.5
2060	1/2$^-$	0.60
2350	5/2$^-$	0.78
2510	9/2$^+$	5.2

[†] From 1974Wh08.
[‡] From DWBA analysis of measured $\sigma(\theta)$ in 1974Wh08. The quoted values of C^{2}S here are the original values in 1974Wh08 multiplied by $(2J_f+1)/(2J_i+1)$ to keep consistent with the standard definition of C^{2}S for stripping reaction in DWBA analysis.
[#] Values assumed by the authors of 1974Wh08 for the extraction of C^{2}S.