

$^{31}\text{P}(^6\text{Li,d})$ 1979Es05

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen, John Cameron and Balraj Singh		NDS 112,2715 (2011)	20-Oct-2011

1979Es05: E(^6Li)=36 MeV 150-400 nA beam from the MP tandem accelerator of the University of Rochester. Target: an Cd_3P_2 target of about $100 \mu\text{g}/\text{cm}^2$ on a $10 \mu\text{g}/\text{cm}^2$ carbon foil by sputtering with an argon beam using the "Sputterbell". Detector: Kodak NTB-50 nuclear emulsion plates for deuterons, FWHM=50 keV. Measured $\sigma(E_d, \theta)$. Deduced levels, J^π , L, spectroscopic factors for levels of 0, 1220, 1760 and 3160 KeV from DWBA analysis. Also deduced levels for other nuclei. Target ^{31}P $J^\pi=1/2^+$.

 ^{35}Cl Levels

Spectroscopic factor S: $g*S = \sigma(\theta)^{\text{exp}} / \sigma(\theta)^{\text{DWBA}}$, where $g = (2J_f + 1) / (2J_i + 1)$ (1979Es05).

E(level)	L [†]	S
0	2	1.00
1220	0	1.49
1760	2	0.24
3160	3	0.52

[†] From the comparison of the DWBA prediction of the angular distribution with the experimental data.