

$^{50}\text{Ti}(\alpha, \text{d})$ 1980Ok03

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yang Dong, Huo Junde		NDS 128, 185 (2015)	10-Jul-2015

E=23.9 MeV, resolution \approx 80 keV FWHM, measured $\sigma(\theta)$, ΔE -E counter telescope.

 ^{52}V Levels

E(level)	J^π	L	Comments
20		4	E(level): authors suggest population mainly of 23-keV state, since L=4 and DWBA calculation for population of g.s. and 17 level, if configuration is $(\pi f7/2)(\nu p3/2)$, gives $\approx 20\%$ of σ .
4.32×10^3	3^-	7	J^π : $\sigma(\text{DWBA})$ and $\sigma(\theta)$ give best agreement for configuration $(\pi f7/2)(\nu g9/2)$ coupled to J=8 with L=7. $\sigma(\alpha, \text{d})/\sigma(^3\text{He}, \text{p})$ suggests large spin.