
 $^{128}\text{Te}(\alpha, {}^3\text{He})$ [2013Ka04](#),[2013KaZZ](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Janos Timar and Zoltan Elekes, Balraj Singh		NDS 121, 143 (2014)	31-May-2014

[2013Ka04](#): $E(\alpha)=50$ MeV beam from Yale tandem accelerator of WNSL facility. Measured ${}^3\text{He}$ spectra, $\sigma(\theta)$ using a split-pole spectrograph. FWHM ≈ 70 keV. Deduced levels, ground state configuration of ^{128}Te . DWBA analysis.

 ^{129}Te Levels

Cross section data are from [2013KaZZ](#). The statistical uncertainties are less than 1% for strong states and less than 3% for weaker ones. There is additional systematic uncertainty of $\approx 7\%$.

E(level)	J^π [†]	Comments
0	$3/2^+$	$d\sigma/d\Omega=0.057$ mb/sr (22.5°).
106	$11/2^-$	$d\sigma/d\Omega=1.21$ mb/sr (5°), 0.33 mb/sr (22.5°).
545	$5/2^+$	$d\sigma/d\Omega=0.087$ mb/sr (5°).
2108	$7/2^-$	$d\sigma/d\Omega=0.043$ mb/sr (22.5°).
2221	$7/2^-$	$d\sigma/d\Omega=0.062$ mb/sr (22.5°).
3085		E(level): 3077 15 with ($3/2^+, 5/2^+$) assignment and 3089.3 5 with no J^π assignment in Adopted Levels. $d\sigma/d\Omega=0.12$ mb/sr (5°), 0.017 mb/sr (22.5°).
3655		$d\sigma/d\Omega=0.064$ mb/sr (5°).
3790	$3/2^-$	$d\sigma/d\Omega=0.090$ mb/sr (5°).
4121	$1/2^-$	$d\sigma/d\Omega=0.61$ mb/sr (5°).

[†] From Adopted Levels.