## $^{48}$ Ca( $^{7}$ Li,p2n $\gamma$ ) 1976Br29

History

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

1976Br29: E=28 MeV, measured  $\gamma$ -spectra and recoil distance with a Ge(Li).

2009Fu17:  $^{48}$ Ca( $^{7}$ Li,t), E( $^{7}$ Li)=26.0 MeV. 97.8% enriched target on Carbon foil. Tritons were detected by ΔE-E telescope of Si detectors with FWHM=70 keV. The  $\alpha$  particles emitted from the excited states of  $^{52}$ Ti were detected by eight silicon photodiode detectors. Measured triton spectra,  $\alpha$ t coincidences, Search for Alpha cluster states. No  $\alpha$ -cluster states were detected since the number of coincidence events was very small.

All data are from 1976Br29.

## <sup>52</sup>Ti Levels

E(level)	$J^{\pi \dagger}$	$T_{1/2}$	Comments
0.0	0+	· ·	
1050	2+		
2317	4+		
3027	$(6^{+})$	25 ps 5	$T_{1/2}$ : based on RDM using the 1267-keV $\gamma$ . The lifetime of the 2317-keV level was assumed too
			short to affect the result. The decay data obtained are consistent with this assumption

<sup>†</sup> From Adopted Levels.

$$\gamma$$
(52Ti)

Approximate E $\gamma$  given only for those transitions relevant to  $T_{1/2}$  measurement. No I $\gamma$  or uncertainties on E $\gamma$  reported.

Εγ	$E_i(level)$	$\mathbf{J}_i^{\pi}$	$\mathbf{E}_f$	$\mathbf{J}_f^{\pi}$
710	3027	$\overline{(6^+)}$	2317	4+
1050	1050	2+	0.0	$0_{+}$
1267	2317	4+	1050	2+

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## Level Scheme

