## $^{46}$ Ti( $^{3}$ He,p $\gamma$ ) 1973Sm12

History						
Туре	Author	Citation	Literature Cutoff Date			
Full Evaluation	Jun Chen	NDS 179, 1 (2022)	30-Nov-2021			

1973Sm12: E=17 MeV <sup>3</sup>He beam was produced from the Argonne tandem Van de Graaff. Target was 1 mg/cm<sup>2</sup> <sup>46</sup>Ti metal (83.6% enriched) on a gold foil.  $\gamma$  rays were detected with a Ge(Li) detector and protons were detected with a surface-barrier particle detector. Measured  $E\gamma$ ,  $E_p$ ,  $\gamma p$ -coin. Deduced levels.

## <sup>48</sup>V Levels

E(level) <sup>†</sup>		Comments
0.0		
308 <sup>‡</sup>	Additional information 1.	
421 <sup>‡</sup>	Additional information 2.	
2289 6		
2408 5		
3019 6		
3702 6		
3866 5		
4698 <sup>#</sup>		
3866 <i>5</i> 4698 <sup>#</sup> 4798 <sup>#</sup>		

<sup>†</sup> From a least-squares fit to γ-ray energies, unless otherwise noted.
<sup>‡</sup> Rounded values in Adopted Levels.
<sup>#</sup> Taken by 1973Sm12 from their (<sup>3</sup>He,p) measurement, with uncertainty=15.

## $\gamma(^{48}V)$

$E_{\gamma}^{\dagger}$	E <sub>i</sub> (level)	$E_f$
1981 6	2289	308
1989 6	2408	421
2098 6	2408	308
2598 6	3019	421
3394 6	3702	308
3445 6	3866	421
3558 6	3866	308
4368 <sup>‡#</sup> 6	4698	308
4368 <sup>‡#</sup> 6	4798	421

<sup>†</sup> From 1973Sm12. <sup>‡</sup> Multiply placed.

<sup>#</sup> Placement of transition in the level scheme is uncertain.

## <sup>46</sup>Ti(<sup>3</sup>He,pγ) 1973Sm12

Level Scheme

---- ► γ Decay (Uncertain)

Legend



