

$^2\text{H}(^{34}\text{S},n\gamma)$  1973Wa10

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

**1973Wa10:** 59.6 MeV  $^{34}\text{S}$  beam produced from the BNL MP-tandem Van de Graaff facility. Targets: 200  $\mu\text{g}/\text{cm}^2$  TiD target prepared by evaporating titanium onto the target backings in a deuterium atmosphere. Detectors: a 35  $\text{cm}^3$  Ge(Li) detector with FWHM=2 keV for 656-keV  $\gamma$ -rays. Measured  $E_\gamma$ . Deduced  $T_{1/2}$  for the levels of 1219 and 1762 keV using Doppler Shift Attenuation Method (DSAM).

 $^{35}\text{Cl}$  Levels

E(level)	$J^\pi$ <sup>‡</sup>	$T_{1/2}$ <sup>†</sup>
0	$3/2^+$	
1219	$1/2^+$	201 fs 28
1762	$5/2^+$	374 fs 49

<sup>†</sup> From 1973Wa10.

<sup>‡</sup> From Adopted Levels.

 $\gamma(^{35}\text{Cl})$ 

$E_\gamma$ <sup>†</sup>	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
1219	1219	$1/2^+$	0	$3/2^+$
1762	1762	$5/2^+$	0	$3/2^+$

<sup>†</sup> From 1973Wa10.

 $^2\text{H}(^{34}\text{S},n\gamma)$  1973Wa10Level Scheme