

$^2\text{H}(^{34}\text{S},\text{p}\gamma)$ 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}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 cm^3 Ge(Li) detector with FWHM=2 keV for 656-keV γ -rays. Measured E_γ . Deduced $T_{1/2}$ for the levels of 1574 and 2350 keV using Doppler Shift Attenuation Method (DSAM).

 ^{35}S Levels

<u>E(level)</u>	<u>J^π[†]</u>	<u>$T_{1/2}$[‡]</u>
0	$3/2^+$	
1574	$1/2^+$	2.29 ps <i>35</i>
2350	$3/2^-$	0.90 ps <i>14</i>

[†] From Adopted Levels.

[‡] Using Doppler Shift Attenuation Method (DSAM).

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

<u>E_γ</u>	<u>$E_i(\text{level})$</u>	<u>J^π_i</u>	<u>E_f</u>	<u>J^π_f</u>
776	2350	$3/2^-$	1574	$1/2^+$
1574	1574	$1/2^+$	0	$3/2^+$

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