

<sup>32</sup>S(<sup>3</sup>He,t $\gamma$ )

1997Le14

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 201,1 (2025)	31-Oct-2024

1997Le14: E=24 MeV <sup>3</sup>He beam was produced from the Orsay Institut de Physique Nucleaire Tandem accelerator. Tritons were detected with a superconducting solenoid spectrometer SOLENO combined with  $\Delta E$ -E telescope and  $\gamma$  rays were detected with a set of 8 large-volume Ge detectors. Measured E $\gamma$ , (triton) $\gamma$ -coin. Deduced levels. Four energy levels reported from 1736 to 2281 keV.

<sup>32</sup>Cl Levels

E(level) <sup>†</sup>	J $\pi$ <sup>†</sup>	Comments
0	1 <sup>+</sup>	
90	2 <sup>+</sup>	
1736 2	3 <sup>+</sup>	$\Gamma_\gamma/\Gamma=0.92$ 20 (1997Le14).
2130 2	3 <sup>+</sup>	$\Gamma_\gamma/\Gamma=0.52$ 28 (1997Le14).
2213	1 <sup>+</sup>	$\Gamma_\gamma/\Gamma<0.08$ (1997Le14).
2281	2 <sup>+</sup>	$\Gamma_\gamma/\Gamma<0.05$ (1997Le14).

<sup>†</sup> As given in 1997Le14.

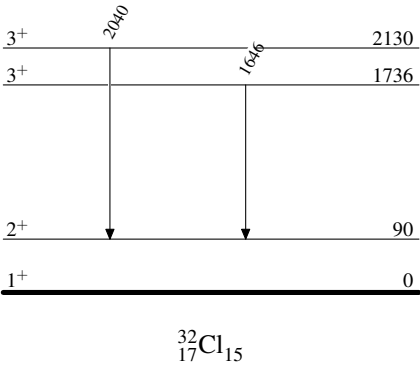
$\gamma(^{32}\text{Cl})$

E $\gamma$ <sup>†</sup>	E <sub>i</sub> (level)	J $\pi$ <sub>i</sub>	E <sub>f</sub>	J $\pi$ <sub>f</sub>
1646	1736	3 <sup>+</sup>	90	2 <sup>+</sup>
2040	2130	3 <sup>+</sup>	90	2 <sup>+</sup>

<sup>†</sup> From 1997Le14 observed in (triton) $\gamma$  coin spectrum.

$^{32}\text{S}({}^3\text{He},\text{t})$     **1997Le14**

Level Scheme



$^{32}_{17}\text{Cl}_{15}$