^{2}H(^{32}S,nγ) 1973Wa10

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh	NDS 199,1 (2025)	30-Sep-2024

1973Wa10: E=54.6 MeV ^{32}S beam was produced from the BNL MP-tandem Van de Graaff facility. Target was 200 μg/cm^2 TiD prepared by evaporating titanium onto the target backings in a deuterium atmosphere. γ rays were detected with a 35 cm^3 Ge(Li) detector with FWHM=2 keV for 656-keV γ-rays. Measured Eγ, Doppler-shift attenuation. Deduced $T_{1/2}$ of 811 level.

^{33}Cl Levels

E(level)	$T_{1/2}$ †
0	
811	1.25 ps *24*

† From DSAM in 1973Wa10.

γ(^{33}Cl)

E_γ	E_i(level)	E_f
811	811	0

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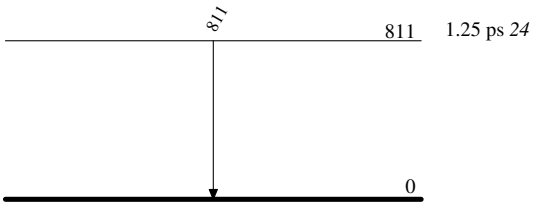
Level Scheme



$^{33}_{17}Cl_{16}$