## Coulomb excitation 2002Co09

Type Author Citation Literature Cutoff Date
Full Evaluation M. S. Basunia, A. Chakraborty NDS 197,1 (2024) 31-May-2024

Primary beam of <sup>36</sup>Ar, E=100 MeV/nucleon, fragmented on <sup>9</sup>Be primary target, the settings of the A1200 separator at NSCL allowed <sup>30</sup>S fragments in the secondary beam along with the main fragments of <sup>32</sup>Ar isotopes; Coulomb excitation was done on secondary target of gold, deduced BE2↑.

## <sup>30</sup>S Levels

E(level)<sup>†</sup>  $J^{\pi^{\dagger}}$   $T_{1/2}$  Comments  $0 0^{+}$ 2210.15 20 2<sup>+</sup> 153 fs 13 B(E2)↑=0.035 3  $T_{1/2}$ : deduced by the evaluators from BE2↑=0.035 3 and adopted  $\gamma$ -ray branching.

† From Adopted Levels.

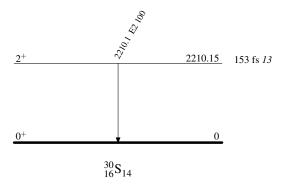
$$\gamma(^{30}S)$$

 $\frac{E_{\gamma}^{\dagger}}{2210.1 \ 2}$   $\frac{I_{\gamma}}{100}$   $\frac{E_{i}(\text{level})}{2210.15}$   $\frac{J_{i}^{\pi}}{2^{+}}$   $\frac{E_{f}}{0}$   $\frac{J_{f}^{\pi}}{0^{+}}$   $\frac{\text{Mult}}{\text{E2}}$ 

## Coulomb excitation 2002Co09

## Level Scheme

Intensities: Relative  $I_{\gamma}$ 



<sup>†</sup> From Adopted gammas.