

$^{85}\text{Rb}(\text{p},2\text{n}\gamma)$ **1979Yo03**

| Type | Author | History | Citation | Literature Cutoff Date |
|-----------------|-----------------------------------|---------|---------------------|------------------------|
| Full Evaluation | B. Singh, A. Negret, and K. Zuber | | NDS 110,2815 (2009) | 30-Sep-2009 |

1979Yo03 (also [1974Sa23](#)): E=17 MeV to 28 MeV. Target enrichment >99%. Ge(Li), FWHM=2.5 keV at 1.33 MeV and 520 eV at 122 keV. Measured E_γ , I_γ , excitation functions, $\gamma(\theta)$ and $\gamma\gamma$ measured at E=21 MeV. Assignment of the γ transitions based on the fitted A_2 and A_4 .

 ^{84}Sr Levels

| E(level) | J $^\pi$ |
|-----------------------|-----------|
| 0 [†] | 0 $^+$ |
| 793.5 [†] 3 | 2 $^+$ |
| 1454.2 [‡] 3 | (2 $^+$) |
| 1768.1 [†] 4 | (4 $^+$) |
| 2056.2 [‡] 4 | (3 $^+$) |
| 2769.5 5 | (5 $^-$) |
| 2808.4 [†] 5 | (6 $^+$) |

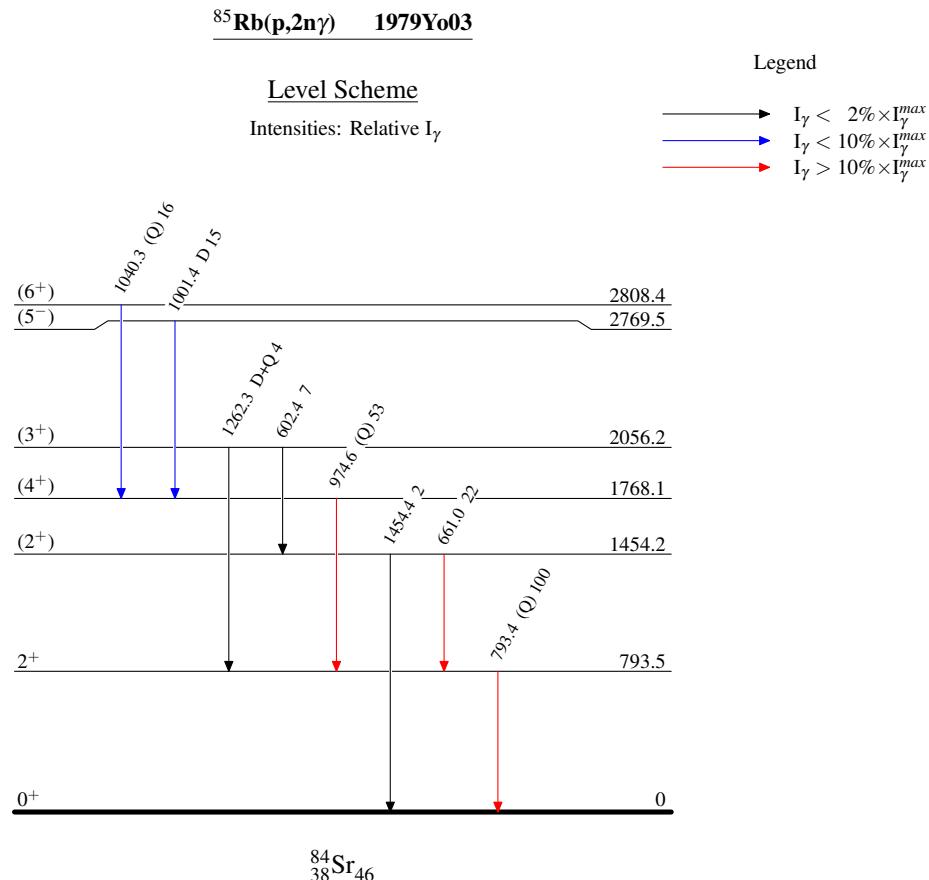
[†] Band(A): g.s. band.

[‡] Band(B): Quasi- γ band.

 $\gamma(^{84}\text{Sr})$

| E_γ | I_γ [†] | E_i (level) | J_i^π | E_f | J_f^π | Mult. | Comments |
|------------|-------------------------|---------------|-----------|--------|-----------|-------|-----------------------------------|
| 602.4 3 | 7 | 2056.2 | (3 $^+$) | 1454.2 | (2 $^+$) | | $A_2=+0.26$ 4, $A_4=+0.03$ 7. |
| 661.0 3 | 22 | 1454.2 | (2 $^+$) | 793.5 | 2 $^+$ | | $A_2=+0.10$ 4, $A_4=+0.02$ 7. |
| 793.4 3 | 100 | 793.5 | 2 $^+$ | 0 | 0 $^+$ | (Q) | $A_2=+0.099$ 7, $A_4=-0.027$ 10. |
| 974.6 3 | 53 | 1768.1 | (4 $^+$) | 793.5 | 2 $^+$ | (Q) | $A_2=+0.177$ 7, $A_4=-0.026$ 13. |
| 1001.4 3 | 15 | 2769.5 | (5 $^-$) | 1768.1 | (4 $^+$) | D | $A_2=-0.139$ 18, $A_4=+0.044$ 24. |
| 1040.3 3 | 16 | 2808.4 | (6 $^+$) | 1768.1 | (4 $^+$) | (Q) | $A_2=+0.097$ 4, $A_4=-0.037$ 7. |
| 1262.3 3 | 4 | 2056.2 | (3 $^+$) | 793.5 | 2 $^+$ | D+Q | $A_2=+0.40$ 4, $A_4=+0.29$ 6. |
| 1454.4 4 | 2 | 1454.2 | (2 $^+$) | 0 | 0 $^+$ | | |

[†] Relative intensities measured at 21 MeV. Uncertainty 10% for strong and 30% for weak lines.



$^{85}\text{Rb}(\text{p},2\text{n}\gamma)$ 1979Yo03**Band(A): g.s. band**(6⁺) 2808.4

1040

Band(B): Quasi- γ band(3⁺) 2056.2(4⁺) 1768.1

602

975

(2⁺) 1454.22⁺ 793.5

793

0⁺ 0 $^{84}_{38}\text{Sr}_{46}$