## $^{87}$Rb(p,n),(p,$\gamma$) IAR 1968Zi03,1968De06,1969Ha41

History

| Type | Author | Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | E. A. Mccutchan and A. A. Sonzogni | NDS 115, 135 (2014) | 1-Nov-2013 |

$^{87}$Rb(p,n) IAR.
1968Zi03: E=4.6 MeV to 6.2 MeV. Measured $\sigma(\theta)$ and $\Gamma$ using three $^{3}$He long counters.
1968De06: E=2.3 MeV to 5.6 MeV. Measured $\sigma(\theta)$ and $\Gamma$ using a Hanson-McKibben long counter.
$^{87}$Rb(p,$\gamma$) IAR.
1969Ha41: E=4 MeV to 15 MeV. Measured $\sigma(\theta)$ using Stanford 24cm NaI assembly.
See also the $^{88}$Sr(e,e′p) measurement of 1974Sh05 which supports the results of 1969Ha41.
Other: $^{88}$Sr($\gamma$,p) (1969Sh13).
Theoretical investigations of IAR′s: 1983Ch12, 1980Au04, 1972Au03, 1972Sp02.
S(p)=10612.5 keV 11 (2012Wa38).

### $^{88}$Sr Levels

| E(level)[†] | J$^{\pi}$[‡] | T$_{1/2}$[#] | Comments |
|---|---|---|---|
| 15645 | 2$^-$ | 35 keV *5* | IAS: g.s.<br>T$_{1/2}$: other: $\Gamma$=18 keV *5* (1968De06). |
| 15674 | (3)$^-$ | 27 keV *5* | IAS: 28.<br>T$_{1/2}$: other: $\Gamma$=25 keV *5* (1968De06). |
| 15918 | 4$^-$ | 31 keV *4* | IAS: 268.<br>T$_{1/2}$: other: $\Gamma$=24 keV *5* (1968De06). |
| 16500 | 2$^-$ | 28 keV *5* | IAS: 862. |
| 17.2×10$^3$ | | | |
| 17.8×10$^3$ | | | |
| 19.2×10$^3$ | | | |
| 20.5×10$^3$ | | | |

[†] E(res) in c.m. system from (p,n) measurement of 1968Zi03 for E<17 MeV. Energies of 1968De06 are systematically ≈25 keV larger. Above 17 MeV, energies are from (p,$\gamma$) measurement of 1969Ha41.
[‡] From $^{88}$Rb Adopted Levels assuming IAS.
[#] Resonance $\Gamma$ from (p,n) (1968Zi03).