

Adopted Levels, Gammas

| Type            | Author       | History<br>Citation | Literature Cutoff Date |
|-----------------|--------------|---------------------|------------------------|
| Full Evaluation | D. De Frenne | NDS 110,1745 (2009) | 31-Dec-2008            |

$Q(\beta^-)=8.82\times 10^3$  7;  $S(n)=4.87\times 10^3$  11;  $S(p)=1.684\times 10^4$  syst;  $Q(\alpha)=-1.05\times 10^4$  syst 2012Wa38

Note: Current evaluation has used the following Q record 8810 70574e+1 17168e+2 2 -10170 syst 2003Au03.

1987PfZX: 600-MeV p-induced fission of  $^{238}\text{U}$ .

1987PfZX,1986Hi02: mass separated source from  $^{235}\text{U}(n,F)$ .

 $^{102}\text{Sr}$  LevelsCross Reference (XREF) Flags

A  $^{102}\text{Rb}$   $\beta^-$  decay

| E(level) | J $^\pi$          | T $_{1/2}$ | XREF | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------|-------------------|------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0.0      | 0 <sup>+</sup>    | 69 ms 6    | A    | $\% \beta^- = 100$ ; $\% \beta^- n = 5.5$ 15<br>$\% \beta^- n$ : Weighted average of 4.8% 23 (1986ReZS) and 6.0% 20 (1987PfZX).<br>T $_{1/2}$ : weighted average of 72 ms 10 (1987PfZX), 69 ms 15 (1986ReZS) and 68 ms 8 (1986Hi02). T $_{1/2}$ from $\gamma$ decay of 93 $\gamma$ and 243 $\gamma$ in $^{102}\text{Sr}$ decay (1986Hi02), $\beta^-$ delayed neutron decay (1987PfZX) or growth and decay of $\beta$ counting rate (1986ReZS). |
| 126.0 2  | (2 <sup>+</sup> ) | 3.0 ns 12  | A    | E(level): from 1995Lh03.<br>T $_{1/2}$ : by $\beta\gamma(t)$ and centroid-shift method (1995Lh03).<br>J $^\pi$ : from energy systematics of first 2 <sup>+</sup> state in other even-strontium isotopes.                                                                                                                                                                                                                                       |

 $\gamma(^{102}\text{Sr})$ 

| E $_i$ (level) | J $^\pi_i$        | E $_\gamma$ | I $_\gamma$ | E $_f$ | J $^\pi_f$     | Comments                     |
|----------------|-------------------|-------------|-------------|--------|----------------|------------------------------|
| 126.0          | (2 <sup>+</sup> ) | 126.0 2     | 100         | 0.0    | 0 <sup>+</sup> | E $_\gamma$ : from 1995Lh03. |

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Level Scheme

Intensities: Type not specified

