
${ }^{89} \mathrm{Rb}$ Levels

| $\underline{\mathrm{E}\left(\text { level) }{ }^{\dagger}\right.}$ | $\mathrm{j}^{\text {\# }}$ | $L^{\ddagger}$ | $\underline{\sigma(\exp ) / \sigma(\mathrm{DWBA})}{ }^{@}$ | Comments |
| :---: | :---: | :---: | :---: | :---: |
| 0 | $3 / 2^{-}$ | (1) | 1.10 | $\mathrm{J}^{\pi}$ : from Adopted Levels. |
| 227 | (5/2-) | (3) | 0.29 |  |
| $\approx 500$ |  |  |  | E (level): estimated (evaluator) for a weak unlabelled group in figure VIII-5 (1983StZQ). This may correspond to 497 known from ${ }^{89} \mathrm{Kr} \beta^{-}$decay. |
| $\approx 600$ |  | (1) | 1.15 | $\mathrm{E}($ level ): peak labeled as 497 in figure VIII-5 (1983StZQ) is incorrect in energy. The evaluator estimates the energy of this peak $\mathrm{at} \approx 600$. This group may correspond to 577,586 doublet known from ${ }^{89} \mathrm{Kr} \beta^{-}$decay. $\sigma(\exp ) / \sigma(\mathrm{DWBA})$ : for $\mathrm{L}=1, \mathrm{~J}^{\pi}=1 / 2^{-}$. |
| 856 | (1/2-) | (1) | 8.41 |  |
| 991 | (7/2,9/2+ ${ }^{+}$ | $(3,4)$ | $0.34,{ }^{\&} 0.32$ | $\sigma(\exp ) / \sigma(\mathrm{DWBA}): 0.18$ for $\mathrm{L}=4, \mathrm{~J}=9 / 2^{+}$. |
| 1186 | (7/2,9/2+) | $(3,4)$ | 8.6, \& 7.8 | $\sigma($ exp $) / \sigma$ (DWBA): 4.3 for $\mathrm{L}=4, \mathrm{~J}=9 / 2^{+}$. |
| 1345 | (7/2,9/2+) | $(3,4)$ | $0.24,{ }^{\text {\& }} 0.23$ | $\sigma(\exp ) / \sigma(\mathrm{DWBA}): 0.13$ for $\mathrm{L}=4, \mathrm{~J}=9 / 2^{+}$. |
| 1515 | (3/2) | $(1,2)$ | 2.7, 2.2 |  |

$1694 \quad(5 / 2) \quad(2,3) \quad 3.5,6.5$
$1833 \quad(5 / 2) \quad(2,3) \quad 2.2,4.4$
$2004\left(7 / 2,9 / 2^{+}\right)(3,4) \quad 9.1,{ }^{\&} 8.4 \quad \sigma(\exp ) / \sigma(\mathrm{DWBA}): 4.7$ for $\mathrm{L}=4, \mathrm{~J}=9 / 2^{+}$.
$2168 \quad(5 / 2) \quad(2,3) \quad 5.2,2.6$
$2395 \quad(1 / 2) \quad(0,1) \quad 11.5,19.9$
$2512 \quad(5 / 2) \quad(2,3) \quad 2.7,5.6$
$2614 \quad(3 / 2) \quad(1,2) \quad 3.9,2.9$
$2842 \quad(11 / 2) \quad(5,6) \quad 1.8,2.1$
$3020 \quad(3 / 2) \quad(1,2) \quad 10.7,9.2$
$\dagger$ Uncertainty is not given. From comparison with $\mathrm{E}\left(\right.$ level ) from ${ }^{89} \mathrm{Kr} \beta^{-}$decay, it is expected to be $\approx 10 \mathrm{keV}$.
$\ddagger$ As suggested by $\mathrm{J}^{\pi}$ assignments of 1983 StZQ . These values are considered tentative (evaluator).
\# From 1983StZQ for excited states. The assignments are considered (evaluator) tentative since the $\mathrm{L}(\alpha, \mathrm{p})$ assignments and J-dependence from $\sigma(\theta)$ data and DWBA calculations do not seem firm as presented in figures VIII. 18 to VIII. 20 (1983StZQ).
${ }^{@}$ Two values correspond to L-values and corresponding $\mathrm{J}^{\pi}$ values.
${ }^{\&}$ First value for $7 / 2^{-}$and second for $7 / 2^{+}$.

