Adopted Levels

History

Type Author Citation Literature Cutoff Date
Full Evaluation G. Gürdal and F. G. Kondev NDS 113,1315 (2012)

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 $Q(\beta^-)=1.241\times10^4\ syst;\ S(n)=3.6\times10^3\ syst;\ S(p)=1.32\times10^4\ syst;\ Q(\alpha)=-8.5\times10^3\ syst$ 2012Wa38 Note: Current evaluation has used the following Q record \$ 1.23×10^4\ syst 3.6e⁺3SY1.34E+4\ syst-8.7×10^3\ syst 2011AuZZ. $\Delta Q(\beta^-)=300\ keV,\ \Delta S(n)=400\ keV,\ \Delta S(p)=600\ keV,\ \Delta Q(\alpha)=600\ keV\ in\ 2011AuZZ.$ Isotope also produced in Pb(²³⁸U,F) (1998Do08\ and 1994Be24) and in fragmentation of ¹³⁶Xe on a Be target (2008Be33).

$^{110}\mathrm{Nb}$ Levels

Cross Reference (XREF) Flags

 $\begin{array}{ll} \textbf{A} & \quad Be(^{238}U,F) \\ \textbf{B} & \quad U(p,F) \end{array}$

 $\frac{\text{E(level)}}{0} \quad \frac{\text{J}^{\pi}}{(5)} \quad \frac{\text{T}_{1/2}}{82 \text{ ms } 4} \quad \frac{\text{XREI}}{4 \text{ R}}$

Comments

 $%\beta^-=100; %\beta^-n=40.8$ % β^- n: from intensities of neutrons, β particles and β n coincidences in 1996Me09.

 J^{π} : Direct feeding of $J^{\pi}=4^+$, 5^+ and 6^+ levels in ¹¹⁰Mo following ¹¹⁰Nb β^- decay. Since the decay scheme is incomplete (pandemonium), the proposed assignment is tentative.

 $T_{1/2}$: Weighted average of 86 ms 6 (from 2011Ni01 using the analysis of the (ion)β-correlated decay curve) and 79 ms 5 (from 2011Wa26, weighted average of 81 ms 6 (214 γ (t)) and 75 ms 9 (a sum of 281, 421, 463, 487 and 494 γ (t)). Other: 170 ms 2, from both β-gated and neutron-singles multiscaling curves by fitting the total growth-in and decay periods of time spectra (1996Me09).

 J^{π} : Direct feeding of $J^{\pi}=4^+$, 5^+ and 6^+ levels in ¹¹⁰Mo following ¹¹⁰Nb β^- decay. Since the decay scheme is incomplete (pandemonium), the proposed assignment is tentative.