

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Agda Artna-cohen	NDS 88,155 (1999)	31-Jul-1999

$Q(\beta^-) = -3.76 \times 10^3$ syst; $S(n) = 7.49 \times 10^3$ syst; $S(p) = 2.19 \times 10^3$ syst; $Q(\alpha) = 9.22 \times 10^3$ syst [2012Wa38](#)

Note: Current evaluation has used the following Q record -3800 syst 7400 syst 2000 syst 9220 syst [1995Au04](#).

Estimated $\Delta Q(\beta^-) = 400$, $\Delta S(n) = 400$, $\Delta S(p) = 300$, $\Delta Q(\alpha) = 100$ ([1995Au04](#)).

Calculations, compilations:

Favored α decay: [1993Bu09](#).

g.s. properties: [1997Mo25](#), [1995Mo29](#).

Single-particle Nilsson levels: [1994Cw02](#).

[1994Cw02](#) calculate the following single-particle level sequence: g.s. $9/2[624]$, 0.22 MeV $5/2[512]$, 0.30 MeV $1/2[521]$, 0.31 MeV $7/2[514]$.

Assignment: $^{250}\text{Cf}(^{15}\text{N}, 4n)$, $^{249}\text{Bk}(^{16}\text{O}, 4n)$, parent of ^{257}Lr ([1971Gh01](#)); $^{243}\text{Am}(^{22}\text{Ne}, 4n)$ excit, angular distribution of recoil atoms, excit ([1971Fl02](#)); $^{250}\text{Cf}(^{15}\text{N}, 4n)$, $^{243}\text{Am}(^{22}\text{Ne}, 4n)$, parent of ^{257}Lr ([1998La30](#)).

 ^{261}Db Levels

E(level)	$T_{1/2}$	Comments
0.0	1.8 s 4	$\% \alpha \geq 82$; $\% \text{SF} \leq 18$ $T_{1/2}$: from 1.8 s 6 (1971Fl02) and 1.8 s 6 (1971Gh01). $\% \text{SF}$: from 1998La30 ; other: <50 (1971Gh01). Calculated: $T_{1/2}(\epsilon + \beta^+) > 100$ s, $T_{1/2}(\alpha) = 1.8$ s (1997Mo25); $T_{1/2}(\text{SF}) \approx 1 \times 10^2$ s (1988Lo03).