

Adopted Levels

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

$Q(\beta^-) = -3.08 \times 10^3$ syst; $S(n) = 7.22 \times 10^3$ syst; $S(p) = 2.6 \times 10^3$ syst; $Q(\alpha) = 8.83 \times 10^3$ syst [2012Wa38](#)

Note: Current evaluation has used the following Q record -3010 syst 7210 syst 2500 syst 8830 syst [1995Au04](#).

Estimated $\Delta Q(\beta^-) = 210$, $\Delta S(n) = 250$, $\Delta S(p) = 300$, $\Delta Q(\alpha) = 150$ ([1995Au04](#)).

Calculations, compilations:

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

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

[1994Cw02](#) calculate the following single-particle level sequence:

g.s. 9/2[624], 0.23 MeV 5/2[512], 0.29 MeV 1/2[521], 0.46 MeV 7/2[514].

Assignment: $^{249}\text{Bk}(^{18}\text{O}, 4n)$, ion chem, parent of ^{259}Lr from α - SF correlation ([1992Kr01](#)), (preliminary report [1987GrZN](#)).

Chemistry of Lr - detection of ^{263}Lr α 's ([1992Go28](#), [1993Zi06](#)).

 ^{263}Db Levels

E(level)	$T_{1/2}$	Comments
0.0	27 s +10-7	$\%SF = 57$ 14; $\%\alpha = 43$ 14 $T_{1/2}$: from 1992Kr01 . $\%SF$: from 1992Kr01 . SF with broadly symmetric mass distribution with an average post-neutron-emission TKE=207 MeV 7 (1992Kr01). $\%\epsilon + \%\beta^+$: From $Q(\epsilon) = 2360$ 250 (systematics, 1995Au04) and $\log ft \approx 6$ $T_{1/2}(\epsilon + \beta^+) \approx 1000$ s. Calculated $T_{1/2}(\alpha) \approx 1 \times 10^4$ s, $T_{1/2}(SF) \approx 100$ s (1988Lo03); $T_{1/2}(\alpha) \approx 100$ s (1990Ha26).