Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Y. Akovali	NDS 94,131 (2001)	1-Aug-2001

Q(β^-)=−3.×10^2 *syst*; S(n)=5.5×10^3 *syst*; S(p)=3.6×10^3 *syst*; Q(α)=7.99×10^3 *syst* 2012Wa38
Note: Current evaluation has used the following Q record −210 SY5510 SY3610 SY8070 syst 1995Au04.

Theoretical calculations:
For calculations of fission barrier, see 1985Cw01.

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Assignment:
          254Es(127-MeV  22Ne)    chem (1989HuZU).
          The measured cross sections at E(22Ne)=125    and 126 fit
          the expected excitation function (1990HuZV).
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^{262}Lr Levels

E(level)	$T_{1/2}$	Comments
0.0	≈4 h	%SF<10; %ε+%β^+=?; %α=? $T_{1/2}$: 212 min *18* was measured by 1989HuZU from SF activities. 1990HuZV reported that the average of three experiments was 216 min, and that their later work indicated a half-life of closer to 4 h. SF branching was recommended by 2000Ho27 from measurements of R.W.Lougheed, et al, reported in UCAR 10062-87, 4-2 (1987). Observation of 5-ms SF activities correlated with the nobelium K x-rays shows that the nucleus decays by ε+β^+. Branching for ε+β^+ decay, however, has not been determined. α decay of ^{262}Lr has not been observed. Calculations by 1997Mo25 yield $T_{1/2}(\alpha)$=40000 min.