Adopted Levels

History

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

S(p)=2.1×10^3 *syst*; Q(α)=1.073×10^4 *5* 2012Wa38
Note: Current evaluation has used the following Q record 2000 syst 10700 syst 1995Au04.
Estimated ΔS(p)=500, estimated ΔQ(α)=300 (1995Au04).

Calculations, compilations:
g.s. properties: 1997Mo25, 1995Mo29.
Pion emission: 1991Io03.
Single-particle Nilsson levels: 1994Cw02.

1994Cw02 calculate the following single-particle level sequence: g.s. 1/2[620], 0.01 MeV *11*/2[725], 0.02 MeV *3*/2[622], 0.08 MeV *7*/2[613], 0.27 MeV *9*/2[615].

^{209}Bi(^{55}Mn,n) 5.5 MeV/nucleon, fission tracks observed with $T_{1/2}$≈1.1 s ascribed to ^{255}Rf, the granddaughter of ^{263}Hs. $T_{1/2}$ of ^{263}Hs was not measured. The observation of ^{255}Rf indicates substantial α decay branch of ^{263}Hs (1984DeZO,1984Og03,1984Og02).

^{263}Hs Levels

E(level)	Comments
0.0	%α≤100 Calculated: $T_{1/2}(\varepsilon+\beta^+)$≈5 s, $T_{1/2}(\alpha)$≈4×10^{-3} s (1997Mo25); $T_{1/2}(\alpha)$≈5E−4s (1990Ha26); $T_{1/2}(\alpha)$≈0.03 s, $T_{1/2}$(SF)≈30 s (1988Lo03).