Adopted Levels

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 111,275 (2010)	1-Oct-2009

$Q(\beta^-)=5.1\times10^3$ *syst*; $S(n)=4.8\times10^3$ *syst* 2012Wa38

Note: Current evaluation has used the following Q record 5090 syst 4960 syst 2003Au03,2009AuZZ.

Uncertainties are 400 and 500 in $Q(\beta^-)$ and S(n), respectively (2003Au03, 2009AuZZ).

Production: ^{136}Xe (9, 11.7 MeV/nucleon), ^{186}W (11.7, 15 MeV/nucleon) and ^{238}U (11.4 MeV/nucleon) beams on ^{nat}W+^{181}Ta stacked targets (1989Ry04); ^{136}Xe (11.4 MeV/nucleon) bombardment of ^{nat}W (1995Kr04).

^{184}Lu Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	(3^+)	19 s *2*	$\%\beta^-=100$ J^π: β decay to (2^+) and (4^+) levels in ^{184}Hf with log *ft*=6.0 and 6.7, respectively. Possible configuration: (π 9/2[514])-(ν 3/2[512]) (1995Kr04). $T_{1/2}$: 1989Ry04 report 19 s *3* for Hf K x ray, 17 s *5* for 107γ and 20 s *4* for short-lived β rays (weighted average 19 s *2*) but authors assigned $T_{1/2}\approx18$ s because they suspected the presence of two β-decaying ^{184}Lu isomers. Later β-γ coin data (1995Kr04) yielded no evidence for β-368γ coincidences, so those authors concluded that there was no evidence for the existence of a high-spin ^{184}Lu isomer. 1995Kr04 estimate $T_{1/2}$=15 s to 25 s from decomposition of a 107γ singles decay curve arising from both ^{184}Lu β^- decay and ^{184}Hf IT decay (48 s *10*).