Adopted Levels

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 113,715 (2012)	31-May-2011

Q(β^-)=1.03×10^4 *syst*; S(n)=2.0×10^3 *syst* 2012Wa38

Note: Current evaluation has used the following Q record $ 10370 calc 2110 calc 15320 calc −3890 calc 1997Mo25.
S(2n)=6420, S(2p)=28200 (1997Mo25,calculated).

2010Oh02: ^{143}Te nuclide identified in Be(^{238}U,F) and Pb(^{238}U,F) reactions with a $^{238}U^{86+}$ beam energy of 345 MeV/nucleon produced by the cascade operation of the RBIF accelerator complex of the linear accelerator RILAC and four cyclotrons RRC, fRC, IRC and SRC. Identification of ^{143}Te nuclei was made on the basis of magnetic rigidity, time-of-flight and energy loss of the fragments using BigRIPS fragment separator. Experiments performed at RIKEN facility.

Additional information 1.

^{143}Te Levels

E(level)	$T_{1/2}$	Comments
0	>408 ns	%β^-=?; %β^-n=?; %β^-2n=? Measured σ=300 pb (2010Oh02), systematic uncertainty≈30%. $T_{1/2}$: lower limit from time-of-flight in 2010Oh02. Actual half-life is expected to be much longer as suggested by the calculated values of 75 ms (1997Mo25); 67 ms (2002Pf04). J^π: $3/2^+$ predicted in calculations of 1997Mo25. Additional information 2. Calculated %β^-n=15.91, %β^-2n=1.59 (1997Mo25). Calculated %β^-n=16.3 (2002Pf04).