Adopted Levels

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	ENSDF	1-Jun-2022

Q(β^-)=5690 *SY*; S(n)=4510 *SY*; S(p)=9030 *SY* 2021Wa16
Estimated uncertainties: ΔQ(β^-)=310, ΔS(n)=360, ΔS(p)=500 (2021Wa16).
Q(β^-n)=2140 *300*, S(2n)=7900 *300* (syst,2021Wa16).
2016Ca25, 2017Ca12: ^{215}Tl produced in ^{9}Be(^{238}U,X) reaction with E = 1 GeV/nucleon produced by the SIS synchrotron at GSI. Fragments were separated and identified by GSI Fragment Separator (FRS) using Bρ-ΔE-Bρ technique. Measured betas, neutrons, β-n, β(t) using BELEN (BEta-deLayeEd Neutron) array consisting of 30 ^{3}He tubes embedded in polyethylene.
2010Al24: ^{215}Tl nuclide produced in ^{9}Be(^{238}U,X) reaction with E = 1 GeV/nucleon produced by the SIS synchrotron at GSI facility. Fragments were analyzed with the Fragment Recoil Separator (FRS) and identified using magnetic rigidity, velocity, time-of-flight, energy loss and atomic number of the fragments.
2004DeZV: authors mention using RILIS ionization source to study the ^{215}Tl activity using $\beta\gamma\gamma$ coincidence setup, however, no resonant γ rays were seen. Probably, the ^{215}Tl activity was not formed in this study.

^{215}Tl Levels

E(level)	$T_{1/2}$	Comments
0.0	9.7 s *38*	%β^-=100; %β^-n=4.6 *46* E(level): observed fragments are assumed to be in the ground state of ^{215}Tl. $T_{1/2}$: from implant-β(t) and analyzed using analyzed by maximum-likelihood method (2016Ca25,2017Ca12). %β^-n: from implant-β and implant-β-neutron correlations backward directions (2017Ca12,2016Ca25).