Adopted Levels, Gammas

				Н	istory							
		Ty	ype	Author	Citation	Literature Cutoff Date						
		Full Ev	aluation	M. Shamsuzzoha Basunia	NDS 121, 561 (2014)	31-Mar-2014						
$Q(\beta^-)=3880 SY; S(n)=4790 SY; S(p)=10190 SY; Q(\alpha)=1840 SY$ 2012Wa38 $\Delta Q(\beta^-)=200 (syst), \Delta S(n)=250 (syst), \Delta S(p)=450 (syst), \Delta Q(\alpha)=360 (syst)$ 2012Wa38.												
²¹⁰ Hg Levels												
Cross Reference (XREF) Flags												
				A ²¹⁰ Hg I' B ²¹⁰ Hg I'	Γ decay (2.1 μs) Γ decay (2 μs)							
E(level) [†]	$J^{\pi \ddagger}$	T _{1/2}	XREF	Comments								
0.0	0^+		AB									
64 <i>3</i> (663)	(2 ⁺) (3 ⁻)	2.1 µs 7	AB AB	J^{π} : (3 ⁻) in 2013Go10, based on unobserved but expected highly converted 20 keV γ -ray feeding the (2 ⁺) state, 663 γ to 0 ⁺ g.s., and calculated reduced transition strengths. Shell model calculation can not reliably predict the location of a 3 ⁻ state, because it does not allow core excitations and also the 3 ⁻ state in the lead region is very fragmented as mentioned in 2013Go10. For ²⁰⁸ Pb, ²¹⁰ Pb, and ²¹⁴ Pb nuclides 3 ⁻ state is prediction at much energy.								
1196	(4^{+})		В	$1_{1/2}$. 110111 005 y(t).								
1366	(6^+)	0 1	В	T E 552 (i) OI	2.0 4 (5 (42 (3))							
x+1300	(8')	2 µs 1	В	$I_{1/2}$: From 553 γ (t). Other:	2.0 μ s 4 (from 643 γ (t)).							

 † From $\gamma\text{-ray}$ energy and feeding. ‡ From shell model calculation and γ ray feeding, except otherwise noted.

							γ ⁽²¹⁰ Hg)
E _i (level)	\mathbf{J}_i^{π}	Eγ	I_{γ}	E_f	\mathbf{J}_f^{π}	Mult.	Comments
643	(2^{+})	643	100	0.0	0^{+}		
(663)	(3-)	(20)	75 [†] 16	643	(2^+)	[E1]	$B(E1)(W.u.)=4.9\times10^{-6} 22$
		663	100 [†] <i>16</i>	0.0	0^{+}	[E3]	B(E3)(W.u.)=2.2 9
1196	(4^{+})	553	100	643	(2^{+})		
1366	(6^{+})	170	100	1196	(4^{+})		
x+1366	(8+)	у			. ,		E_{γ} : 20 < Y < 80 keV suggested in 2013Go10. Upper limit from x-ray measurements – the 71 keV identified as characteristics K_{α} x ray following 170 keV γ -ray. Lower limit from systematics.

[†] From branching ratio 0.43 9 and 0.57 9 for 663- and 20-keV γ rays, respectively (Table 2 – 2013Go10).

Legend

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Level Scheme

²¹⁰₈₀Hg₁₃₀

 0^+



0.0