

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. Kumar(a), J. Chen(b) and F. G. Kondev		NDS 137, 1 (2016)	31-May-2016

S(n)=11720 CA; S(p)=810 SY; Q(α)=4217.7

S(n) from [1997Mo25](#).

S(p) and Q(α) from [2012Wa38](#), $\Delta S(p)=330$.

 ^{109}Xe Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	(7/2 ⁺)	13 ms 2	$\% \alpha = 100$ J^π : HF=3.8 11 to the excited $J^\pi=(7/2^+)$ level in the daughter ^{105}Te nucleus, deduced using $r_0(^{105}\text{Te})=1.672 22$, from HF=1.00 in ^{110}Xe α decay. Note that HF=9.0 18 to the $J^\pi=(5/2^+)$ ground state; systematics of neighboring odd-A Xe, Te and Sn isotopes. configuration: $\nu g_{7/2}$ orbital. $T_{1/2}$: From recoil- $\alpha(\Delta t)$ decay in 2006Li41 . $E\alpha=3918 9$ ($I\alpha=30 6$) and $4062 7$ ($I\alpha=70 6$) (2006Li41); $E\alpha=3910 10$ ($I\alpha=31 7$) and $4063 4$ ($I\alpha=69 7$) (2010Da17).