

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Zoltan Elekes and Janos Timar		NDS 129, 191 (2015)	28-Feb-2015

$Q(\beta^-) = -9050$  SY;  $S(n) = 11070$  SY;  $S(p) = -460$  SY;  $Q(\alpha) = 2940$  SY    [2012Wa38](#)  
 $\Delta Q(\beta^-) = 590$ ,  $\Delta S(n) = 500$ ,  $\Delta S(p) = 420$ ,  $\Delta Q(\alpha) = 500$  ([2012Wa38](#)).  
 $S(2n) = 24730$  syst,  $S(2p) = 2040$  syst,  $Q(\epsilon p) = 9470$  syst ([2012Wa38](#)).  
 Estimated uncertainties: 590 for  $S(2n)$ , 360 for  $S(2p)$ , 360 for  $Q(\epsilon p)$  ([2012Wa38](#)).

 $^{128}\text{Pm}$  Levels

E(level)	$J^\pi$	$T_{1/2}$	Comments
0.0	5,6,7	1.0 s 3	$\% \epsilon = 100$ ; $\% \epsilon p = ?$ ; $\% \alpha = ?$ $\beta^-$ -delayed proton precursor. Proton emission and Nd-K x ray from experiments in 174-MeV $^{36}\text{Ar}$ on $^{96}\text{Ru}$ were measured by <a href="#">1999Xu05</a> , <a href="#">2005Xu04</a> . The measured mean-energy of proton is 3.8 MeV. Others: <a href="#">1997La27</a> and <a href="#">1993Li40</a> reported no evidence of delayed-protons. $T_{1/2}$ : from multiscaling of $\gamma$ gated with p and Nd-K x ray ( <a href="#">1999Xu05</a> , <a href="#">2005Xu04</a> ). $J^\pi$ : from $\beta p$ energy spectra and branching ratios ( <a href="#">2005Xu04</a> ).