## Adopted Levels

History							
Туре	Author	Citation	Literature Cutoff Date				
Full Evaluation	Y. A. Akovali	NDS 77,433 (1996)	1-Feb-1996				

 $Q(\beta^{-})=1113 5$ ; S(n)=5399 6; S(p)=4973 4;  $Q(\alpha)=5536 22 2012$ Wa38

Note: Current evaluation has used the following Q record 1117 5 5399 8 4974 4 5536 22 1995Au04.

The superdeformation properties, such as deformation parameters, level energy and potential-well depth, were calculated by 1992Ch20.

Search for a fissioning isomer was carried out by 1972Ku26 via the <sup>226</sup>Ra(d,xn) reaction; no SF isomer was observed. See 1984Ro23 and 1980Ku14 for calculations and discussions on the fission barriers. For calculation of <sup>5</sup>He emission probability, see 1984Po11.

## <sup>226</sup>Ac Levels

## Cross Reference (XREF) Flags

**A**  $^{230}$ Pa  $\alpha$  decay

E(level)	$\mathbf{J}^{\pi}$	T <sub>1/2</sub>	XREF	Comments
0.0	(1)	29.37 h <i>12</i>	A	$%\alpha$ =6×10 <sup>-3</sup> 2; %β <sup>-</sup> =83 3; %ε=17 3 α branching was deduced by 1975VaZD; β and ε branchings have been determined from relative γ intensities measured by 1974Va28 in <sup>226</sup> Ac β <sup>-</sup> and ε decays. The measured radium K x-ray intensity (corrected for radium x rays from <sup>226</sup> Th α decay) and theoretical εK/ε ratios for the <sup>226</sup> Ac ε decay, measured β intensity to 230-keV level in <sup>226</sup> Th for the <sup>226</sup> Ac β <sup>-</sup> decay have been used to calculate the ε/β <sup>-</sup> ratio. ε/β <sup>-</sup> =62 10/309 17 was obtained by the evaluator. T <sub>1/2</sub> : measurement of 1987Mi10. Other measurement: 29 h (1952Sk82 in 1964Hy02). J <sup>π</sup> : β <sup>-</sup> and ε decays to 0 <sup>+</sup> and 2 <sup>+</sup> levels suggest J <sup>π</sup> =0 <sup>-</sup> , 1 or 2 <sup>-</sup> . Ratios of ft values for transitions to 0 <sup>+</sup> and 2 <sup>+</sup> states are in agreement with Alaga rule for J=K=1. π=+ was suggested by 1974Va28 from smaller log ft value for transition to 1 <sup>-</sup> state (6.7 in ε decay) than for those to 0 <sup>+</sup> and 2 <sup>+</sup> states (7.6 and 7.9 in ε decay).
5.1 13			A	
18.8 10			A	
33.3 10			Α	
45.0 10			Α	
58.3 17			Α	
70.3 10			Α	
77.7 10			Α	
130.4 17			Α	
165 4			Α	
195 <i>3</i>			Α	
230 4			Α	
265 3			Α	
290 4			Α	
378 <i>3</i>			Α	
418 4			Α	
556? 6			Α	
589 <i>3</i>	(2 <sup>-</sup> )		A	$J^{\pi}$ : the hindrance factor of 7±4 for $\alpha$ decay from <sup>230</sup> Pa, ( $J^{\pi}=2^{-}$ ), indicates that it is probably a favored transition.