Adopted Levels

		History		
Type	Author	Citation		Literature Cutoff Date
Full Evaluation	Khalifeh Abusaleem	NDS 116, 163 (2014)		31-Dec-2012

$Q(\beta^-)=-298$ *15*; S(n)=5979 *9*; S(p)=4171 *5*; $Q(\alpha)$=6264.5 *15*   2012Wa38
Calculations, compilations, systematics:
Deduced g.s. J=3$^+$ from quadrupole-octupole model: 1988Sh01.
Properties of prolate superdeformed states: 1992Ch20.
Rotational level structure in odd-odd actinides: 1994So16.

^{228}Pa Levels

E(level)	J$^\pi$	T$_{1/2}$	Comments
0.0	3$^+$	22 h *1*	%ε+%β^+=98.15 *17*; %α=1.85 *17*
			μ=3.5 *5*
			Configuration=((π 7/2(633))(ν 1/2(631)))
			J$^\pi$: log ft=7.4 to 2$^+$, 1900 level (log $f^{1u}t$=6.6); log ft=6.8 to 4$^+$, 1432 level (log $f^{1u}t$=7.0);
			log $f^{1u}t$=10.3 to 5$^-$, 519 level (log ft=9.4); from configuration based on μ.
			T$_{1/2}$: from 1951Me10; other: 29 h *1* (1964Ge08).
			μ: from low temperature nuclear orientation (1989He07).
			%ε+%β^+,%α: from $\alpha/(\alpha+\varepsilon+\beta^+)$=0.020 *2* (1994Ah03); other: $(\varepsilon+\beta^+)/\alpha$=53 *5* (1951Me10).
			configuration: from comparison with μ (1989He07).