^{136}Xe(^{3}He,n) 1979Al07

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 146, 1 (2017)	30-Sep-2017

$J^{\pi}(^{136}\text{Xe g.s.})=0^{+}$.

1979Al07: E=25.4 MeV ^{3}He beam was produced from the University Colorado cyclotron. Targets was xenon gas (99.8% in ^{136}Ba). Neutrons were detected by liquid scintillators with energies determined from time-of-flight (flight path=9 m, timing resolution ≈1 ns, FWHM≈500 keV). Measured S(E_n, θ). Deduced levels, J, π, L-transfers from DWBA analysis.

^{138}Ba Levels

All data are from 1979Al07.

E(level)	L	Comments
0.0	0	
1440	>0	
2340	0+(2)	
2850	>0	L: $\sigma(\theta)$ consistent with L=3.
4130	>0	
4860	0+(2)	
5740	0	
6280	0	L,E(level): other component may be present.
6830	0	