^{9}Be(^{136}Xe,Xγ) 2007Ho22

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	A. Hashizume	NDS 112, 1647 (2011)	1-Oct-2009

E=120 MeV/A ^{136}Xe beam provided by National Superconducting Cyclotron Lab (NSCL) at MSU. Fragment separator. Time-of-flight: plastic scintillator. Ge array, Si detectors for fragment detection: fragment-γ coin, Eγ, Iγ, γ(t).

^{127}Cd Levels

E(level)[†‡]	J$^{\pi}$	Comments
0+x	11/2$^-$	E(level): assumed as β decaying isomer (2007Ho22).
738.70+x *20*	(15/2$^-$)	
1560.1+x *8*	(19/2$^-$)	
2331.0+x *9*	(23/2$^-$)	
3239.9+x *11*	(27/2$^-$)	
y		Microsecond isomer from observation of delayed γ rays.

† From Eγ's.
‡ From a least-squares fit to E(γ's) fixing the 0+x level.

γ(^{127}Cd)

E$_\gamma$	I$_\gamma$	E$_i$(level)	J$_i^{\pi}$	E$_f$	J$_f^{\pi}$
738.7 *2*	100 *16*	738.70+x	(15/2$^-$)	0+x	11/2$^-$
770.9 *4*	56 *16*	2331.0+x	(23/2$^-$)	1560.1+x	(19/2$^-$)
821.4 *7*	73 *19*	1560.1+x	(19/2$^-$)	738.70+x	(15/2$^-$)
908.9 *6*	50 *15*	3239.9+x	(27/2$^-$)	2331.0+x	(23/2$^-$)

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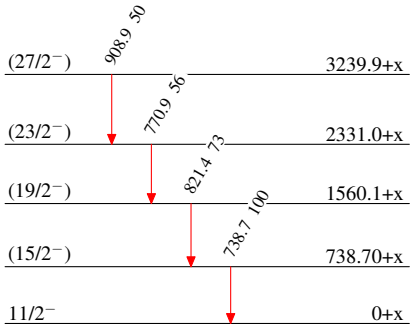
Level Scheme

Intensities: Relative I_γ

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$



$^{127}_{48}Cd_{79}$