^{176}Yb(^{28}Si,Xγ) 2002Po11

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. Lalkovski, F. G. Kondev	NDS 124, 157 (2015)	1-Aug-2014

Facility: VIVITRON; Beam: ^{28}Si, E=145 MeV; Target: 1.5 mg/cm^2 of ^{176}Yb with 15 mg/cm^2 Au backing; Detectors: Eurogam2 array consisting of 30 HPGe and 24 Clover detectors; Measured: γγ, γγγ, Eγ, Iγ; Deduced: level scheme.

^{112}Ag Levels

E(level)[†]	Jπ[‡]	Comments
0	2(−)	
x	(6+)	Additional information 1.
x+97.5[@] *3*	(6−)	
y[&]	(7−)[#]	Additional information 2.
y+74.6[@] *5*	(8−)	
y+178.1[&] *6*	(9−)[#]	
y+565.1[@] *6*	(10−)	
y+889.8[&] *7*	(11−)[#]	
y+1337.9[@] *7*	(12−)	
y+1818.9[&] *10*	(13−)[#]	

[†] From a least-squares fit to Eγ.
[‡] From 2002Po11, unless otherwise stated.
[#] From Adopted Levels.
[@] Band(A): Member of $\pi g_{9/2}\nu h_{11/2}$, α=+1/2 band.
[&] Band(a): Member of $\pi g_{9/2}\nu h_{11/2}$, α=−1/2 band.

γ(^{112}Ag)

Eγ[†]	Iγ[†]	Ei(level)	Jiπ	Ef	Jfπ
74.6 *5*	70 *20*	y+74.6	(8−)	y	(7−)
97.5 *3*	120 *15*	x+97.5	(6−)	x	(6+)
103.5 *2*	100 *10*	y+178.1	(9−)	y+74.6	(8−)
324.7 *3*	26 *4*	y+889.8	(11−)	y+565.1	(10−)
387.0 *2*	50 *5*	y+565.1	(10−)	y+178.1	(9−)
448.1 *3*	19 *4*	y+1337.9	(12−)	y+889.8	(11−)
481 *1*	6 *2*	y+1818.9	(13−)	y+1337.9	(12−)
711.8 *5*	23 *4*	y+889.8	(11−)	y+178.1	(9−)
929 *1*	9 *3*	y+1818.9	(13−)	y+889.8	(11−)

[†] From 2002Po11. Data collected with the requirement that at least 5 Ge detectors were in prompt coincidences.

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Level Scheme

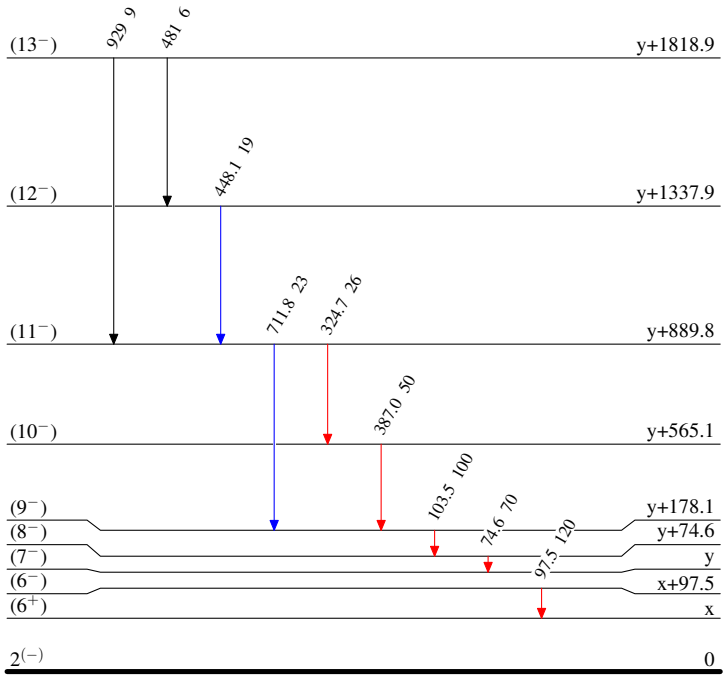
Intensities: Relative I_γ

Legend

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

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

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



$^{112}_{47}Ag_{65}$

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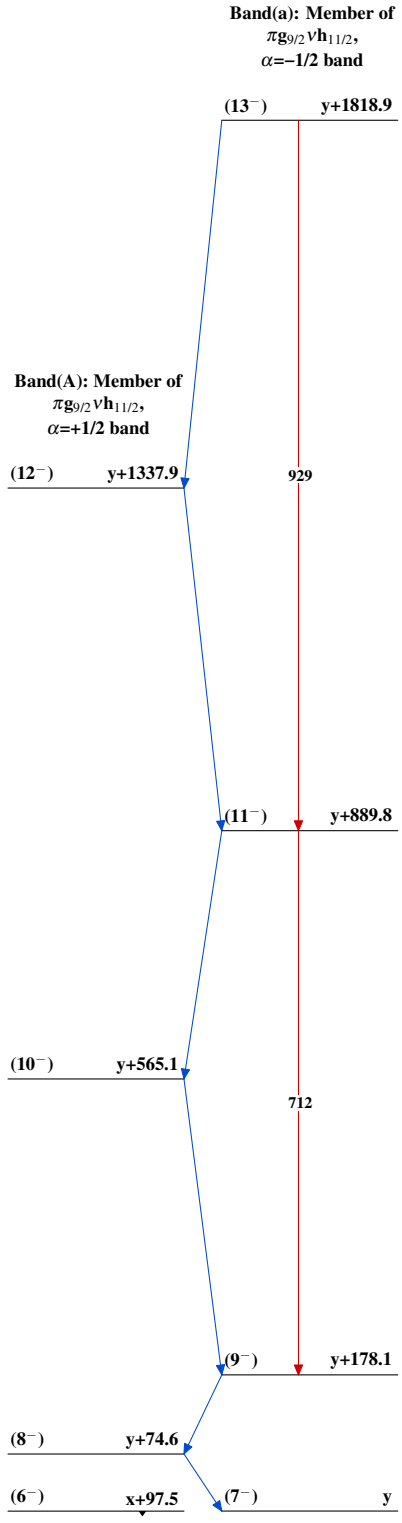

$^{112}_{47}Ag_{65}$