

$^{100}\text{Mo}(^{136}\text{Xe},\text{X}\gamma)$ **2003Re29**

Type	Author	Citation	History	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen	NDS 172,1 (2021)		31-Jan-2021

2003Re29: $E(^{136}\text{Xe})=700$ MeV from the 88-inch cyclotron at LBNL. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using GAMMASPHERE array of 102 Compton-suppressed Ge detectors. The Binary reaction fragments were detected using position-sensitive gas-filled CHICO detector. Gamma rays with GAMMASPHERE were detected together with two co-planar binary fragments in CHICO.

 ^{100}Mo Levels

$E(\text{level})^\ddagger$	$J^\pi{}^\dagger$	$E(\text{level})^\ddagger$	$J^\pi{}^\dagger$	$E(\text{level})^\ddagger$	$J^\pi{}^\dagger$	$E(\text{level})^\ddagger$	$J^\pi{}^\dagger$
0#	0 ⁺	1848#	2	6 ⁺	4065#	3	(12 ⁺)
536#	1	2 ⁺	2629#	2	8 ⁺	4878#	3
1137.	2	4 ⁺	3369#	2	(10 ⁺)	5843#	3
						(16 ⁺)	

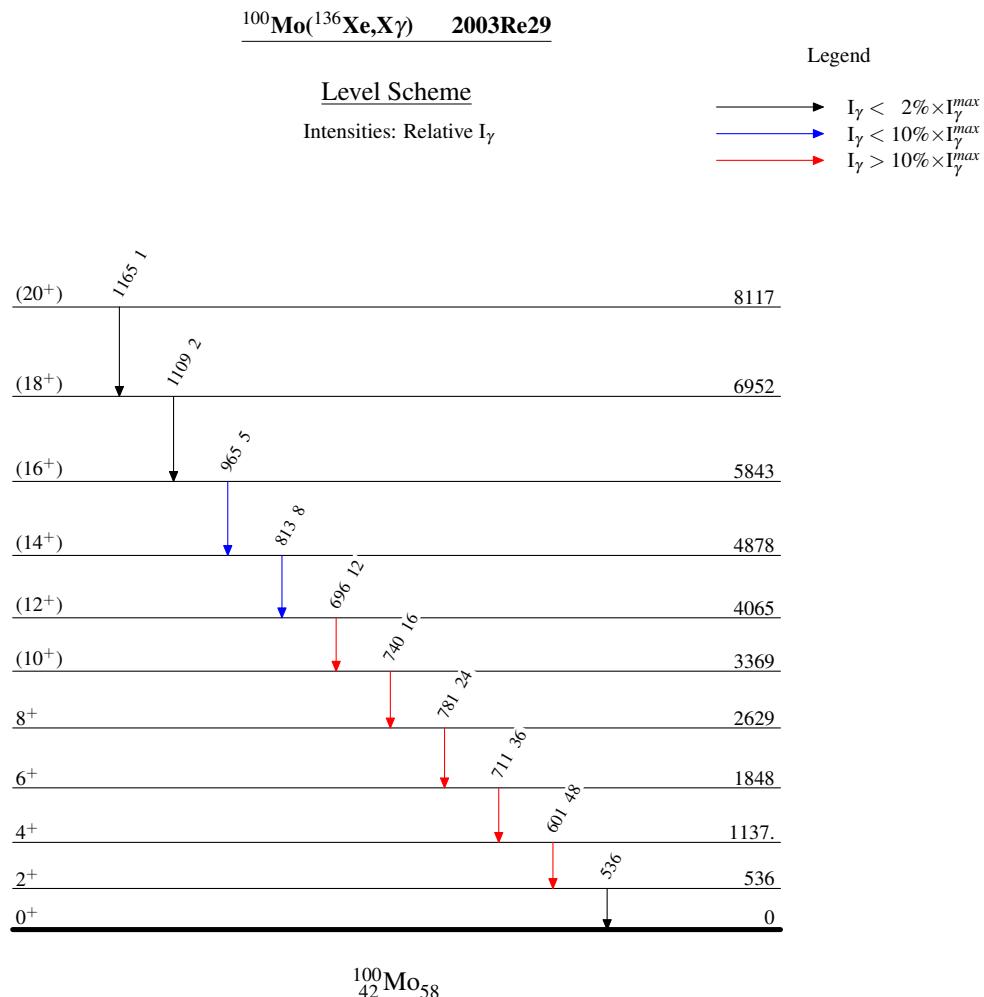
[†] From the Adopted Levels.

[‡] From $E\gamma$ data.

Band(A): g.s. band.

 $\gamma(^{100}\text{Mo})$

E_γ	I_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
536	1	536	2 ⁺	0	0 ⁺
601	1	48	3	1137.	4 ⁺
696	1	12	1	4065	(12 ⁺)
711	1	36	3	1848	6 ⁺
740	1	16	1	3369	(10 ⁺)
781	1	24	2	2629	8 ⁺
813	1	8	1	4878	(14 ⁺)
965	1	5	1	5843	(16 ⁺)
1109	1	2	1	6952	(18 ⁺)
1165	1	1	1	8117	(20 ⁺)



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