

${}^{60}\text{Ni}({}^{40}\text{Ca},2\text{p}2\text{n}\gamma)$ 1983Pi05

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni		NDS 109, 2501 (2008)	1-Apr-2008

E=140 MeV.

Measured: γ , $\gamma\gamma$, $\gamma(t)$, γp , γn . ${}^{96}\text{Pd}$ Levels

E(level) [‡]	J ^π [†]	T _{1/2} [#]	Comments
0.0	0 ⁺		
1415.4	2 ⁺		
2099.2	(4 ⁺)		
2424.3	(6 ⁺)	12 ns 3	
2530.8	(8 ⁺)	2.2 μs 3	T _{1/2} : adopted from 1983Gr01.
2648.9	(5 ⁻)		
3783.9	(10 ⁺)		
4573.9	(12 ⁺)		
6728	(13 ⁺)		E(level),J ^π : from 1989A105 in (${}^{36}\text{Ar},2\text{p}2\text{n}\gamma$).
7039	(15 ⁺)	58 ns 5	T _{1/2} : measured by 1983Pi05, assigned to 7039 level by 1989A105. E(level),J ^π : from 1989A105 in (${}^{36}\text{Ar},2\text{p}2\text{n}\gamma$).

[†] Adopted values.[‡] From E_γ values.[#] From g(t) in 1983Pi05, unless otherwise noted. $\gamma({}^{96}\text{Pd})$

E _γ	I _γ [†]	E _i (level)	J _i ^π	E _f	J _f ^π
106.45 20	40 3	2530.8	(8 ⁺)	2424.3	(6 ⁺)
224.6 3	9 5	2648.9	(5 ⁻)	2424.3	(6 ⁺)
311.3 4	16 7	7039	(15 ⁺)	6728	(13 ⁺)
325.1 3	103 4	2424.3	(6 ⁺)	2099.2	(4 ⁺)
683.8 3	94 16	2099.2	(4 ⁺)	1415.4	2 ⁺
790.0 3	43 5	4573.9	(12 ⁺)	3783.9	(10 ⁺)
1253.1 5	55 12	3783.9	(10 ⁺)	2530.8	(8 ⁺)
1415.4 3	100 4	1415.4	2 ⁺	0.0	0 ⁺
(2155)		6728	(13 ⁺)	4573.9	(12 ⁺)

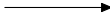



[†] Measured at 135°.

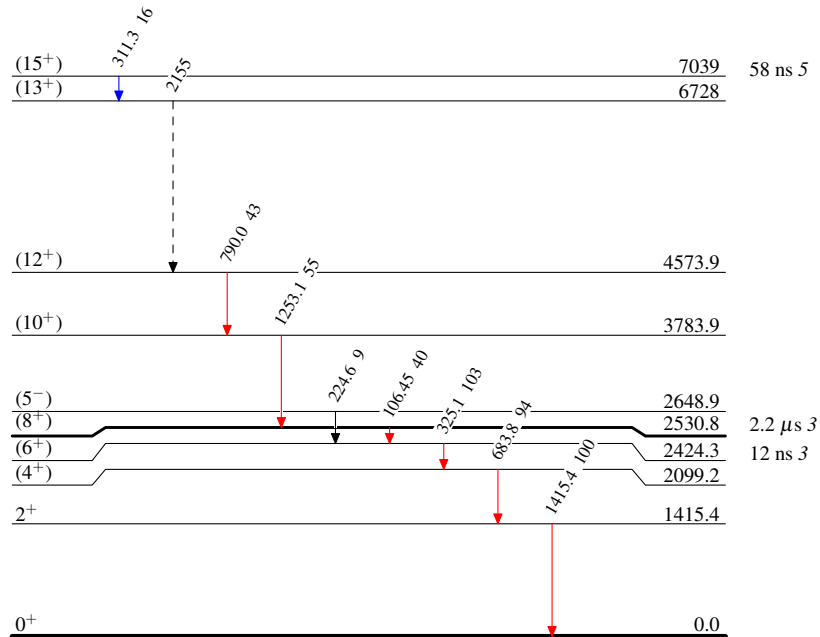
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Legend

Level Scheme

Intensities: Type not specified

-  $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
-  $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
-  $I_\gamma > 10\% \times I_\gamma^{\text{max}}$
-  γ Decay (Uncertain)

 ${}^{96}\text{Pd}_{50}$