

${}^{40}\text{Ca}({}^{28}\text{Si,pn}\gamma)$  2001Gr07

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 111, 1093 (2010)	3-Mar-2009

E=85.3 MeV. Isomer decay tagging technique with recoil mass spectrometer. Measured  $\gamma$ ,  $\gamma(t)$ , CLARION array. Includes  ${}^{32}\text{S}$  on  ${}^{40}\text{Ca}$ , E=140 MeV, P- $\gamma\gamma\gamma$ , GAMMASPHERE.

 ${}^{66}\text{As}$  Levels

E(level)	$J^{\pi\dagger}$	$T_{1/2}$	Comments
3023.8 3	(9 <sup>+</sup> )	8.2 $\mu\text{s}$ 5	<a href="#">Additional information 1.</a>
3863.8 10	(11 <sup>+</sup> )		
5324.8 15	(13 <sup>+</sup> )		
5810.8 15	(12)		
6532.8 18	(14)		
7794.9 20	(16)		
9792.9 23	(18)		

<sup>†</sup> From Adopted Levels. Assignments are based on calculations using the shell-model and shape isomerism ([2005Ha30](#)).

 $\gamma({}^{66}\text{As})$ 

$\Delta I\gamma$ : Assumed by evaluators.

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
722 1	6532.8	(14)	5810.8	(12)
840 1	3863.8	(11 <sup>+</sup> )	3023.8	(9 <sup>+</sup> )
1262 1	7794.9	(16)	6532.8	(14)
1461 1	5324.8	(13 <sup>+</sup> )	3863.8	(11 <sup>+</sup> )
1947 1	5810.8	(12)	3863.8	(11 <sup>+</sup> )
1998 1	9792.9	(18)	7794.9	(16)

${}^{40}\text{Ca}({}^{28}\text{Si},\text{pn}\gamma)$  2001Gr07Level Scheme