

$^{16}\text{O}(^{58}\text{Ni}, 2n\gamma)$ [1987Va23](#)

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni	NDS 111,1 (2010)	1-May-2009

E=170 MeV, γ singles, I γ . Identification by recoil separator. Level order from intensity balance and analogy with the ^{72}Se decay scheme.

The γ -ray energy from the 8^+ level was reported by [1987Va23](#) to be 925 keV 2. This value was later on determined to be 995.5 keV. See (HI,xn γ), $^{40}\text{Ca}(^{40}\text{Ca}, 2\alpha\gamma)$ and $^{40}\text{Ca}(^{36}\text{Ar}, 2p2n\gamma)$ for far more extensive datasets.

 ^{72}Kr Levels

E(level)	J $^{\pi}$
0	0 $^{+}$
709.1 3	(2 $^{+}$)
1321.6 5	(4 $^{+}$)
2111.8 6	(6 $^{+}$)

 $\gamma(^{72}\text{Kr})$

E $_{\gamma}$	I $_{\gamma}$	E $_i$ (level)	J $^{\pi}_i$	E $_f$	J $^{\pi}_f$
^x 115.0 3	13 3				
^x 324.1 3	30 5				
612.5 4	61 8	1321.6	(4 $^{+}$)	709.1	(2 $^{+}$)
709.1 3	100	709.1	(2 $^{+}$)	0	0 $^{+}$
790.2 4	27 5	2111.8	(6 $^{+}$)	1321.6	(4 $^{+}$)

^x γ ray not placed in level scheme.

$^{16}\text{O}(^{58}\text{Ni},2n\gamma)$ 1987Va23

Level Scheme

Intensities: Relative I_γ

Legend

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

