

⁹⁴Mo(⁷⁸Kr,3n γ) 2009Go16

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 209,1 (2026)	1-Oct-2025

Edit/Adapted the XUNDL data set compiled by B. Karamy and B. Singh (McMaster), June 18, 2009.

E=348 MeV; measured E γ , I γ , $\gamma\gamma$, (recoils) α coin, $\gamma\gamma$ (recoil) α $\gamma\gamma$ (recoil) $\alpha\alpha$ coin using the JUROGAM Ge-detector array, comprising of 43 escape suppressed spectrometers and the GREAT spectrometer comprised of two adjacent DSSDs, a planar Ge detector, a large-volume Ge clover detector and an array of 28 Si PIN diode detectors. Recoil- α decay tagging technique. Comparison with IBM-model calculations.

¹⁶⁹Pt Levels

E(level) [†]
0.0+x
0.0+y
542.8+x 4
548.7+y 8
1212.4+x 5
1238.3+x 19
1244.2+y 20
1962.2+y? 24

[†] From E γ 's.

γ (¹⁶⁹Pt)

E γ	I γ	E _i (level)	E _f	Comments
^x 184.3 2	17 3			
^x 237.0 3	13 2			
542.8 4	100 19	542.8+x	0.0+x	
548.7 8	50 15	548.7+y	0.0+y	
669.6 1	69 11	1212.4+x	542.8+x	
695.5 [‡] 18	46 [‡] † 8	1238.3+x	542.8+x	E γ : other: 693 in Fig. 4.
695.5 [‡] 18	27 [‡] † 5	1244.2+y	548.7+y	E γ : other: 697 in Fig. 4.
718.0 [#] 13	12 16	1962.2+y?	1244.2+y	
^x 748.5 5	34 10			

[†] Intensity of 695.5 doublet divided on the basis of thickness arrows shown in figure 4 of 2009Go16. Total intensity=73 12.

[‡] Multiply placed with intensity suitably divided.

[#] Placement of transition in the level scheme is uncertain.

^x γ ray not placed in level scheme.

$^{94}\text{Mo}(\text{}^{78}\text{Kr}, 3\text{n}\gamma)$ 2009Go16

Level Scheme

Intensities: Relative I_γ
@ Multiply placed: intensity suitably divided

Legend

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

