^{9}Be(^{124}Xe,Xγ)　　**2017Pa35**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, E. A. Mccutchan	NDS 165, 1 (2020)	1-Mar-2020

2017Pa35: E(^{124}Xe)=345 MeV/nucleon incident on a 740 mg/cm^2 thick ^{9}Be target at the RIKEN-RIBF facility. Fragments
identified using the BigRIPS separator and the ZeroDegree spectrometer by determining the atomic number and the mass-to-charge
ratio of the ion using the tof-Bρ-ΔE method. Secondary beam was stopped in the double-sided silicon strip detector of the
WAS3ABi spectrometer. Measured: Eγ, Iγ, implant-γ(t) using the EURICA array consisting of 84 HP Ge detectors.

2019Ha26: E(^{124}Xe)=345 MeV/nucleon incident on a thick ^{9}Be target at the RIKEN-RIBF facility. Fragments identified using the
BigRIPS separator and the ZeroDegree spectrometer by determining the atomic number and the mass-to-charge ratio of the ion
using the tof-Bρ-ΔE method. Secondary beam was stopped in the double-sided silicon strip detector of the WAS3ABi
spectrometer. Measured: Eγ, Iγ, implant-γ(t) using the EURICA array consisting of 84 HP Ge detectors.

^{90}Mo Levels

E(level)[†]	J$^{\pi}$[†]	T$_{1/2}$	Comments
0.0	0$^+$		
948.0	2$^+$		
2002.1	4$^+$		
2548.8	5$^-$		
2811.7	6$^+$		
2874.8	8$^+$	1.15 μs 5	E(level): isomeric ratio R=61% 3 (2017Pa35).
			T$_{1/2}$: from implant-γ(t) in 2017Pa35, but the gating γ-ray transitions were not specified by the authors. Also 1.14 μs 5 from implant-γ(t) in 2019Ha26.

[†] From the Adopted Levels. Level energies are rounded values.

γ(^{90}Mo)

E$_{\gamma}$[†]	E$_i$(level)	J$^{\pi}_i$	E$_f$	J$^{\pi}_f$	Comments
63.2	2874.8	8$^+$	2811.7	6$^+$	E$_{\gamma}$: other: 63 keV reported in 2017Pa35.
262.8	2811.7	6$^+$	2548.8	5$^-$	
546.7	2548.8	5$^-$	2002.1	4$^+$	
809.6	2811.7	6$^+$	2002.1	4$^+$	
948.0	948.0	2$^+$	0.0	0$^+$	
1054.1	2002.1	4$^+$	948.0	2$^+$	

[†] Rounded values from the Adopted Gammas.

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Level Scheme

$^{90}_{42}$Mo$_{48}$