^{60}Ni(^{18}O,^{16}Oγ) 2019LeZW

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Huang Xiaolong, and Wang Xianghan	NDS 204,1 (2025)	30-Jun-2023

2019LeZW (also 2019Le24): ^{60}Ni(^{18}O,^{16}O),E=sub−Coulomb energy: authors mention that data collected at ALTO IPN-Orsay accelerator using Nu-ball array of 24 Compton-suppressed HPGe Clover detectors, ten Compton-suppressed HPGe coaxial detectors, and 20 $LaBr_3$ scintillator detectors for lifetime measurements by fast-timing techniques.

2019LeZW proposed a preliminary level scheme. Level lifetime data are not available.

All data are from Fig. 3 in 2019LeZW.

^{62}Ni Levels

E(level)	J^{π}[†]
0	0^+
1173	2^+
2049	0^+
2891	0^+
3474	(0^+)
3526	0^+
3851	(0^+)

[†] From comparison to shell model calculations and decay patterns.

γ(^{62}Ni)

E_γ	E_i(level)	J^{π}_i	E_f	J^{π}_f
876	2049	0^+	1173	2^+
1173	1173	2^+	0	0^+
1717	2891	0^+	1173	2^+
2301	3474	(0^+)	1173	2^+
2353	3526	0^+	1173	2^+
2679	3851	(0^+)	1173	2^+

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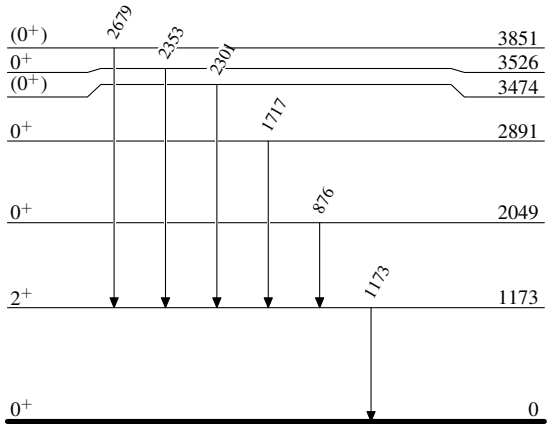
Level Scheme



$^{62}_{28}Ni_{34}$