^{64}Ni(α,$\alpha'\gamma$) 1974Iv01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen	NDS 178,41 (2021).	12-Nov-2021

1974Iv01: E=13 MeV α beam from the Institute of Atomic Physics Cyclotron. γ rays were detected with a Ge(Li) detector. Measured $\alpha\gamma$-coin, Doppler-shift attenuation. Deduced $T_{1/2}$.

Others: 1973De44 (12-19 MeV), 1973Bu32 (19 MeV).

^{64}Ni Levels

E(level)	J$^{\pi}$[†]	$T_{1/2}$	Comments
0	0^+		
1351	2^+	0.28 ps *10*	$T_{1/2}$: from DSA method. Disagrees with value from Coul. Ex. (DSA method and that deduced from B(E2) value), see Adopted Levels.

[†] From the Adopted Levels.

$\gamma(^{64}Ni)$

E_γ	E_i(level)	J_i^π	E_f	J_f^π
1351	1351	2^+	0	0^+

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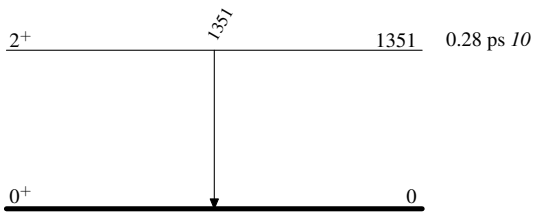
Level Scheme



$^{64}_{28}Ni_{36}$