

$^{89}\text{Y}(\alpha,5n\gamma)$ 1985Ox01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan and A. A. Sonzogni		NDS 115, 135 (2014)	1-Nov-2013

$E(\alpha)=69$ MeV. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$, $\gamma\gamma$ -n and $\gamma(\theta)$ using two Ge and seven NaI detectors for γ rays and six liquid scintillators (NE213) for neutrons.

 ^{88}Nb Levels

<u>E(level)[†]</u>	<u>J^π[‡]</u>
0.0	(8 ⁺)
1089.51 20	(10 ⁺)
2007.6? 4	(9,11)
2077.6 4	(12 ⁺)

[†] From a least-squares fit to $E\gamma$, by evaluators.

[‡] Assignments of 1985Ox01 based on $\gamma(\theta)$ measurements.

 $\gamma(^{88}\text{Nb})$

<u>E_γ</u>	<u>I_γ</u>	<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.</u>	<u>Comments</u>
918.1 [†] 3	36 3	2007.6?	(9,11)	1089.51	(10 ⁺)	D	Mult.: A ₂ =-0.14 8.
988.1 4	39 3	2077.6	(12 ⁺)	1089.51	(10 ⁺)	(Q)	Mult.: A ₂ =+0.24 18, A ₄ =-0.14 17.
1089.5 2	100 5	1089.51	(10 ⁺)	0.0	(8 ⁺)	Q	Mult.: A ₂ =+0.21 15, A ₄ =-0.2 1.

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

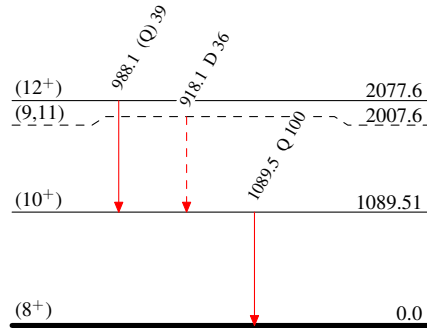
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Level Scheme

Intensities: Type not specified

Legend

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

 ${}^{88}_{41}\text{Nb}_{47}$