

${}^{89}\text{Y}(\alpha, n\gamma)$  1972Ri04

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 112, 1163 (2011)	15-Dec-2010

$E\alpha=10.4-10.8$  MeV,  $\theta(\text{lab})=90^\circ$ ; measured excitation functions for  $92\gamma$ ,  $151\gamma$ ,  $165\gamma$ .

The observed excitation function anomalies at  $E\alpha\approx 10.5$  and  $10.7$  MeV are attributed, respectively, to the  ${}^{93}\text{Zr}(947$  level) IAS and to a possible  ${}^{93}\text{Zr}(1169$  level) IAS with  $\Gamma=20$  and  $24$  keV (based on partial wave analysis).

 ${}^{93}\text{Nb}$  Levels

E(level) <sup>†</sup>	$\Gamma$	Comments
$\approx 11.98 \times 10^3$	20 keV	$\Gamma$ is much lower than deduced in p-induced reactions.
$\approx 12.17 \times 10^3$	24 keV	Reported in this reaction only.

<sup>†</sup> If  $Q_\alpha({}^{93}\text{Nb})=-1931$  (2003Au03).