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 $^{90}\text{Zr}(^{90}\text{Zr},\gamma)$  [1986Si19](#)

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<u>Type</u>	<u>Author</u>	<u>History</u> <u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	E. A. Mccutchan	NDS 126, 151 (2015)	1-Feb-2015

$E(^{90}\text{Zr})=358$  MeV. Measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma(\theta)$ , total  $\gamma$ -ray energy and average multiplicity using an array of 20 NaI detectors covering a geometry of 90% of  $4\pi$ . Channel selection using the SHIP velocity filter and  $\alpha$ - $\gamma$  coincidences using a position sensitive detector telescope.

Others: [1986Sc07](#), [1986Ke03](#).

 $\gamma(^{180}\text{Hg})$ 

$\gamma$ -ray assignments proposed by [1986Si19](#) are included in the comments, however, due to poor energy resolution and statistics (603  $\gamma$ -ray events were detected), these are not adopted.

<u><math>E_\gamma</math></u>	<u><math>I_\gamma</math></u>	<u>Comments</u>
<sup>x</sup> 194 9	26.2 76	$E_\gamma$ : tentatively placed as $2^+$ to $0^+$ transition.
<sup>x</sup> 282 11	29.6 88	$E_\gamma$ : tentatively placed as $4^+$ to $2^+$ transition.
<sup>x</sup> 342 14	24.9 90	$E_\gamma$ : tentatively placed as $6^+$ to $4^+$ transition.
<sup>x</sup> 467 15	24.6 87	

<sup>x</sup>  $\gamma$  ray not placed in level scheme.