

$^{176}\text{Yb}(^{23}\text{Na},\text{F}\gamma)$ **2000Fo10**

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	Jean Blachot	NDS 109, 1383 (2008)	1-Mar-2008

E=129 MeV. Measured E_γ and I_γ using the GAMMASPHERE with 92 Compton-suppressed large volume HPGe detectors. Only the decay of the $15/2^-$ level agrees with the ^{252}Cf work of [2002Zh02](#).

 ^{107}Ru Levels

<u>E(level)</u>	<u>J^π</u>	<u>Comments</u>
$0+x^\dagger$	$(11/2^-)$	E(level): $143 \leq x \leq 304$.
$371.9+x^\dagger$	$(15/2^-)$	
$955.0+x^\dagger$	$(19/2^-)$	
$1676.9+x^\dagger$	$(23/2^-)$	
$2501.0+x^\dagger$	$(27/2^-)$	
$3407.7+x^\dagger$	$(31/2^-)$	

† Band(A): $(11/2^-)$ band.

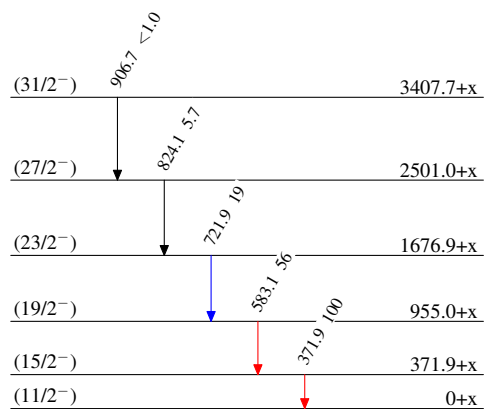
 $\gamma(^{107}\text{Ru})$

<u>E_γ</u>	<u>I_γ</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>
371.9	100	$371.9+x$	$(15/2^-)$	$0+x$	$(11/2^-)$
583.1	56 10	$955.0+x$	$(19/2^-)$	$371.9+x$	$(15/2^-)$
721.9	19 6	$1676.9+x$	$(23/2^-)$	$955.0+x$	$(19/2^-)$
824.1	5.7 25	$2501.0+x$	$(27/2^-)$	$1676.9+x$	$(23/2^-)$
906.7	<1.0	$3407.7+x$	$(31/2^-)$	$2501.0+x$	$(27/2^-)$

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Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
—→ $I_\gamma < 10\% \times I_\gamma^{\max}$
—→ $I_\gamma > 10\% \times I_\gamma^{\max}$

 $^{107}_{44}\text{Ru}_{63}$

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Band(A): (11/2⁻) band

(31/2⁻) 3407.7+x

907

(27/2⁻) 2501.0+x

824

(23/2⁻) 1676.9+x

722

(19/2⁻) 955.0+x

583

(15/2⁻) 371.9+x

372

(11/2⁻) 0+x

$^{107}_{44}\text{Ru}_{63}$