

$^{91}\text{Zr}(^{11}\text{B},\text{p}2\text{n}\gamma)$  1978Lu02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 145, 25 (2017)	1-Jul-2017

E=40 MeV.

Measured:  $\gamma$ ,  $\text{p}\gamma$ .

No level scheme given by 1978Lu02. The observed transitions are fitted into the Adopted Levels by the evaluators.

 $^{99}\text{Ru}$  Levels

E(level)	$J^{\pi\dagger}$	E(level)	$J^{\pi\dagger}$	E(level)	$J^{\pi\dagger}$	E(level)	$J^{\pi\dagger}$
0	$5/2^+$	720	$9/2^+$	1497	$13/2^+$	2268	$(19/2)^-$
341	$7/2^+$	1049	$11/2^+$	1572	$15/2^-$	2401	$(17/2)^+$
618	$7/2^+$	1070	$11/2^-$	2021	$15/2^+$		

 $\dagger$  Adopted values. $\gamma(^{99}\text{Ru})$ 

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
277 $^\dagger$	618	$7/2^+$	341	$7/2^+$	696	2268	$(19/2)^-$	1572	$15/2^-$
(329 $^\#$ )	1049	$11/2^+$	720	$9/2^+$	720	720	$9/2^+$	0	$5/2^+$
341	341	$7/2^+$	0	$5/2^+$	777 $^\dagger$	1497	$13/2^+$	720	$9/2^+$
350	1070	$11/2^-$	720	$9/2^+$	$^x844$				
502	1572	$15/2^-$	1070	$11/2^-$	904	2401	$(17/2)^+$	1497	$13/2^+$
618 $^\ddagger$	618	$7/2^+$	0	$5/2^+$	972 $^\ddagger$	2021	$15/2^+$	1049	$11/2^+$

 $^\dagger$  Dominated by contamination peak. $^\ddagger$  Weak transition. $^\#$  From adopted  $\gamma$  radiation.  $\gamma$  not observed by 1978Lu02 but known to deexcite the 1049 level. $^x$   $\gamma$  ray not placed in level scheme.

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Legend

## Level Scheme

----->  $\gamma$  Decay (Uncertain)