

$^{104}\text{Ru}(\alpha,4n\gamma)$ 1972Gr17

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 108,2035 (2007)	30-Mar-2007

$E\alpha=26,30,32,43$ MeV.

Measured: $E\gamma$, $I\gamma$.

 ^{104}Pd Levels

E(level)	$J^\pi^\dagger$
0.0	0^+
555.3 3	2^+
1323.0	4^+
1341.7	2^+
1820.4	3^+
2082.3	4^+
2249	6^+
2265.3	4^+
3219	8^+

† From Adopted Levels.

 $\gamma(^{104}\text{Pd})$

E_γ	$I_\gamma^\dagger$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	E_γ	$I_\gamma^\dagger$	$E_i(\text{level})$	J_i^π	E_f	J_f^π
$^x214.5$ 3	5.9					767.7 3	84.7	1323.0	4^+	555.3	2^+
$^x326.8$ 3	5.1					925.7 3	54.2	2249	6^+	1323.0	4^+
$^x409.5$ 3	4.2					941.7 3	3.4	2265.3	4^+	1323.0	4^+
$^x522.3$ 3	3.4					970.6 3	12.7	3219	8^+	2249	6^+
555.3	100	555.3	2^+	0.0	0^+	$^x1119.1$ 3	≤ 2.5				
$^x631.3$ 3	9.3					$^x1164.5$ 3	4.2				
$^x678.7$ 3	8.5					1264.8 3	5.1	1820.4	3^+	555.3	2^+
$^x726.7$ 3	9.3					1340.4 3	≤ 1.7	1341.7	2^+	0.0	0^+
$^x737.6$ 3	8.5					1526.8 3	≤ 2.5	2082.3	4^+	555.3	2^+

† Uncertainty varies from 10% to 50%.

x γ ray not placed in level scheme.

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Level Scheme

Intensities: Type not specified

Legend

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

