

$^9\text{Be}(^{208}\text{Pb},\text{X}\gamma)$ 2008StZY

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	C. J. Chiara and F. G. Kondev		NDS 111,141 (2010)	1-Oct-2009

2008StZY: 2.526-g/cm² ^9Be target; $E(^{208}\text{Pb})=1$ GeV/A, beam on 10 s, off 8 s; GSI Fragment Separator, scintillator detectors for mass identification via ToF and for position information, multiwire detectors for position information, ΔE of fragments in gas ionization chambers, 7-mm plastic stopper for implantation of fragments, array of 15 HPGe cluster detectors with 15% total efficiency at 662 keV; measured $E\gamma$, $I\gamma$, and $\gamma(t)$. See also 2009St16.

 ^{204}Au Levels

<u>$E(\text{level})^\dagger$</u>	<u>$J^\pi^\dagger$</u>	<u>$T_{1/2}^\dagger$</u>	Comments
0.0 976.6+x	(2 ⁻)	39.8 s 9 2.1 μs 3	$E(\text{level})$: Since both the 839.0 γ and 976.6 γ show the same lifetime, the excitation energy of the isomer is larger than 976.6 keV. $T_{1/2}$: From 839 $\gamma(t)$ and 977 $\gamma(t)$ in 2008StZY.

[†] From Adopted Levels, unless otherwise specified.

 $\gamma(^{204}\text{Au})$

<u>$E_\gamma^\dagger$</u>	<u>$I_\gamma^\dagger$</u>	<u>$E_i(\text{level})$</u>
^x 96.9 [#]	20 8	
^x 276.6 [#]	32 10	
^x 427.0 [#]	15 7	
^x 704.4 [#]	34 14	
^x 839.0 [‡]	100 15	
^x 976.6 [‡]	93 15	

[†] From 2008StZY.

[‡] Firmly assigned to ^{204}Au .

[#] Assignment to ^{204}Au is uncertain.

^x γ ray not placed in level scheme.