

$^{232}\text{Th}(^{206}\text{Pb}, ^{208}\text{Pb}\gamma)$     **1986De36**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 113, 2113 (2012)	1-May-2012

$E(^{206}\text{Pb})=4.3\text{-}6.4 \text{ MeV/mass unit}$  ([1986De36](#)).  
 $Q(^{206}\text{Pb}, ^{208}\text{Pb})=2.55 \text{ MeV}$  ([1986De36](#)).

 $^{230}\text{Th}$  Levels

$E(\text{level})$	$J^\pi$ <sup>†</sup>
0.0	$0^+$
53.2	$2^+$
174.2	$4^+$
356.6	$6^+$
594.1	$8^+$
879.7	$10^+$
1207.8	$12^+$

<sup>†</sup> Adopted values.

 $\gamma(^{230}\text{Th})$ 

$E_\gamma$ <sup>†</sup>	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
53.2	53.2	$2^+$	0.0	$0^+$
120.9	174.2	$4^+$	53.2	$2^+$
182.5	356.6	$6^+$	174.2	$4^+$
237.5	594.1	$8^+$	356.6	$6^+$
285.6	879.7	$10^+$	594.1	$8^+$
328.1	1207.8	$12^+$	879.7	$10^+$

<sup>†</sup>  $\gamma$  rays were detected in coincidence with  $^{208}\text{Pb}$  particles to identify the excited states in reaction products. The measured photon energies were not given in [1986De36](#).  $\gamma$ -ray energies are from authors' Coulomb excitation work ([1989Ku23](#)).

$^{232}\text{Th}(^{206}\text{Pb}, ^{208}\text{Pb}\gamma) \quad 1986\text{De36}$ Level Scheme