

$^{208}\text{Pb}(^{32}\text{S}, ^{33}\text{S}\gamma)$  1993Co01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev, S. Lalkovski		NDS 112, 707 (2011)	1-Aug-2010

Facility: XTU Tandem at LNL; Beam:  $E(^{32}\text{S})=185$  MeV,  $I_c=7$  pA; Target:  $500 \mu\text{g}/\text{cm}^2$  enriched in  $^{208}\text{Pb}$ ; Detectors:  $\Delta E$ -E ionization chamber, 4 Compton-suppressed HPGe,  $\varepsilon=25\%$ ; Measured:  $\gamma, \gamma\gamma, d\sigma/d\Omega$ ; Deduced: DWBA,  $J^\pi$ .

 $^{207}\text{Pb}$  Levels

E(level) <sup>†</sup>	$J^\pi$ <sup>‡</sup>	Comments
0	$1/2^-$	$J^\pi$ : From the Adopted Levels.
569.6 5	$5/2^-$	configuration: $\nu(2f_{5/2})^{-1}$ .
897.7 5	$3/2^-$	configuration: $\nu(3p_{3/2})^{-1}$ .
2339.8 7	$7/2^-$	configuration: $\nu(2f_{7/2})^{-1}$ .

<sup>†</sup> From a least-squares fit to  $E_\gamma$ .

<sup>‡</sup> Based on DWBA in 1993CO01, unless otherwise noted.

 $\gamma(^{207}\text{Pb})$ 

$E_\gamma$ <sup>†</sup>	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
569.6 5	569.6	$5/2^-$	0	$1/2^-$
897.7 5	897.7	$3/2^-$	0	$1/2^-$
1770.2 5	2339.8	$7/2^-$	569.6	$5/2^-$

<sup>†</sup> From 1993Co01.  $\Delta E_\gamma$  not given by the authors, but estimated by the evaluators.

$^{208}\text{Pb}(^{32}\text{S}, ^{33}\text{S}\gamma)$  1993Co01Level Scheme