

**$^{208}\text{Pb}(\text{pol p},\alpha)$  1991Ga11**

| Type            | Author       | History<br>Citation | Literature Cutoff Date |
|-----------------|--------------|---------------------|------------------------|
| Full Evaluation | F. G. Kondev | NDS 166, 1 (2020)   | 20-Apr-2020            |

**1991Ga11**: Polarized beam; E(p)=22 MeV; measured  $\sigma(\theta)$ , vector analyzing power. Angular distributions and asymmetries were measured from 5° up to 75° in 5° steps; FWHM=12 keV; DWBA analysis.

Others: **1993Ma03**, **1978Sm06**, **1978Bo36**, **1974Gl03**, **1971Ho11**.

 $^{205}\text{Tl}$  Levels

| E(level) <sup>†</sup> | J <sup>π</sup> #                        | L <sup>†</sup> | S <sup>†</sup> | E(level) <sup>†</sup> | J <sup>π</sup> #                        | L <sup>†</sup> | S <sup>†</sup> |
|-----------------------|-----------------------------------------|----------------|----------------|-----------------------|-----------------------------------------|----------------|----------------|
| 0.0                   | 1/2 <sup>+</sup>                        | 0              | 0.54           | 2445 3                | (11/2 <sup>+</sup> ,13/2 <sup>-</sup> ) | (6,7)          | 0.09,0.05      |
| 207 3                 | 3/2 <sup>+</sup>                        | 2              | 1.00           | 2486 3                | 9/2 <sup>+</sup>                        | 4              | 0.09           |
| 619 3                 | 5/2 <sup>+</sup>                        | 2              | 1.45           | 2537 <sup>‡</sup> 5   |                                         |                |                |
| 923 3                 | 7/2 <sup>+</sup>                        | 4              | 1.50           | 2553 3                |                                         |                |                |
| 1141 3                | 3/2 <sup>+</sup>                        | 2              | 0.03           | 2584 3                | (11/2 <sup>-</sup> )                    | 5              | 0.17           |
| 1218 3                | 1/2 <sup>+</sup>                        | 0              | 0.07           | 2630 3                | (9/2 <sup>+</sup> )                     | (4,3)          | 0.30           |
| 1342 3                | 3/2 <sup>+</sup>                        | 2              | 0.09           | 2711 3                | (7/2 <sup>-</sup> ,9/2 <sup>+</sup> )   | (3,4)          | 0.17,0.09      |
| 1430 3                | 9/2 <sup>+</sup>                        | 4              | 1.40           | 2749 3                | 3/2 <sup>+</sup>                        | 2              | 0.10           |
| 1483 3                | 11/2 <sup>-</sup>                       | 5              | 0.54           | 2838 3                | (5/2 <sup>+</sup> )                     | 2              | 0.20           |
| 1553 3                | (7/2 <sup>+</sup> )                     | (4,5)          | 0.12           | 2845 3                |                                         |                |                |
| 1575 3                | (5/2 <sup>+</sup> )                     | (2,3)          | 0.09           | 2885 3                | (5/2 <sup>+</sup> ,7/2 <sup>+</sup> )   | (2,4)          |                |
| 1694 3                | 3/2 <sup>+</sup>                        | 2              | 0.04           | 2923 3                | 13/2 <sup>+</sup>                       | 6              | 1.80           |
| 1829 3                | 1/2 <sup>+</sup>                        | 0              | 0.09           | 2996 <sup>‡</sup> 5   |                                         |                |                |
| 1850 3                |                                         |                |                | 3072 <sup>‡</sup> 8   |                                         |                |                |
| 1860 3                | 5/2 <sup>+</sup>                        | 2              | 0.17           | 3111 <sup>‡</sup> 8   |                                         |                |                |
| 1916 3                | 11/2 <sup>+</sup>                       | 6              | 1.00           | 3133 <sup>‡</sup> 8   |                                         |                |                |
| 1946 3                | 5/2 <sup>+</sup>                        | 2              | 0.25           | 3159 <sup>‡</sup> 8   |                                         |                |                |
| 2006 3                |                                         |                |                | 3182 <sup>‡</sup> 8   |                                         |                |                |
| 2036 3                |                                         |                |                | 3273 <sup>‡</sup> 8   |                                         |                |                |
| 2056 3                | (13/2 <sup>+</sup> ,15/2 <sup>-</sup> ) | (6,7)          | 1.50,1.00      | 3363 <sup>‡</sup> 8   |                                         |                |                |
| 2126 3                | 7/2 <sup>-</sup>                        | 3              | 0.25           | 3427 <sup>‡</sup> 8   |                                         |                |                |
| 2162 3                |                                         |                |                | 3511 <sup>‡</sup> 8   |                                         |                |                |
| 2185 3                | (11/2 <sup>+</sup> ,13/2 <sup>-</sup> ) | (6,7)          | 0.30,0.17      | 3531 <sup>‡</sup> 8   |                                         |                |                |
| 2222 3                | (3/2 <sup>+</sup> )                     | 2              | 0.04           | 3636 <sup>‡</sup> 8   |                                         |                |                |
| 2286 <sup>‡</sup> 5   | (11/2 <sup>-</sup> )                    | 5              |                | 3692 <sup>‡</sup> 8   |                                         |                |                |
| 2302 3                | (7/2 <sup>+</sup> ,9/2 <sup>-</sup> )   | (4,5)          | 0.17,0.10      | 3813 <sup>‡</sup> 8   |                                         |                |                |
| 2339 3                | (7/2 <sup>+</sup> )                     | 4              | 0.10           | 3960 <sup>‡</sup> 8   |                                         |                |                |
| 2393 3                | (17/2 <sup>-</sup> )                    | 9              | 0.75           | 3990 <sup>‡</sup> 8   |                                         |                |                |

<sup>†</sup> From **1991Ga11**.

<sup>‡</sup> From **1978Sm06**.

# From  $\sigma(\theta)$  and  $A_y(\theta)$  in **1991Ga11**.