

$^{90}\text{Zr}(^7\text{Li},^6\text{Li})$  1993Yo01,1979Pu01

| Type            | Author          | History<br>Citation  | Literature Cutoff Date |
|-----------------|-----------------|----------------------|------------------------|
| Full Evaluation | Coral M. Baglin | NDS 114, 1293 (2013) | 1-Sep-2013             |

1993Yo01: E=30 MeV/nucleon; magnetic spectrograph; 97.62%  $^{90}\text{Zr}$  target; FWHM $\approx$ 500 keV.

1979Pu01: E=34 MeV. 98.6%  $^{90}\text{Zr}$  target. Semi.  $\Delta E, E$  counter telescope.  $\theta(\text{C.M.})\approx 10^\circ-53^\circ$ .

 $^{91}\text{Zr}$  Levels

| E(level) <sup>†</sup>           | C <sup>2</sup> S <sup>‡</sup> | Comments   |
|---------------------------------|-------------------------------|--|
| 0                               |                               |  |
| 1.21 $\times 10^3$ <sup>#</sup> | 0.79                          | C <sup>2</sup> S: if J <sup><math>\pi</math></sup> =1/2 <sup>+</sup> . |
| 2.03 $\times 10^3$ <sup>#</sup> | 0.61                          | C <sup>2</sup> S: if J <sup><math>\pi</math></sup> =3/2 <sup>+</sup> . |
| 2.19 $\times 10^3$ <sup>#</sup> |                               | Doublet.   |
| 3.60 $\times 10^3$ 15           |                               | $\Gamma=1.0$ MeV.  |
| 5.10 $\times 10^3$ 15           |                               | $\Gamma=1.0$ MeV.  |
| 6.30 $\times 10^3$ 15           |                               | $\Gamma=1.2$ MeV.  |
| 14.40 $\times 10^3$ 15          |                               | Not a discrete level; $\Gamma=6.0$ MeV.                                |

<sup>†</sup> From 1993Yo01, except as noted.

<sup>‡</sup> From DWBA (1979Pu01).

<sup>#</sup> From 1979Pu01.