## $^{92}$Zr($\alpha$,$^3$He)    1973Bi04

| Type | Author | History Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | Coral M. Baglin | NDS 112,1163 (2011) | 15-Dec-2010 |

E=65.7 MeV, FWHM≈55 keV, $\theta$=15° and 20°, 95.7% $^{92}$Zr target.

### $^{93}$Zr Levels

| E(level)[†] | L[&] | (2J+1)S[@] | E(level)[†] | L[&] | (2J+1)S[@] | E(level)[†] | L[&] | (2J+1)S[@] |
|---|---|---|---|---|---|---|---|---|
| 0.0 | 2 | 2.88 | ≈2490[‡] | 2 | 1.20[‡] | 3322 *10* | 4 | 0.28 |
| 1419[#] *5* | | | 2638[#] *10* | | | 3870 *10* | 5 | 0.50 |
| 1463 *5* | 4 | 3.12 | ≈2690[‡] | 5 | 1.18[‡] | 4035[#] *10* | | |
| 1598 *5* | 4 | 0.31 | 2770 *10* | 2 | 1.28 | 4118 *10* | 5 | 0.55 |
| 2025 *10* | 5 | 2.64 | 2873 *10* | 5 | 0.50 | | | |
| 2075[#] *10* | | | 2991 *10* | 4 | 1.92 | | | |

[†] From $^{92}$Zr(d,p) data of 1973Bi04.

[‡] The 2464 and 2526 and 2662 and 2716 pairs of levels in (d,p) were not resolved in the ($\alpha$,$^3$He) spectrum. (2J$_f$+1)S for the pair of levels is quoted here since L(d,p) is the same for each component of doublet.

[#] Not resolved from adjacent stronger levels.

[@] From comparison of 15° and 20° data with DWBA predictions, assuming L deduced by authors from their (d,p) data.

[&] L values assumed from authors' $^{92}$Zr(d,p) analysis in order to deduce S′ for ($\alpha$,$^3$He).