## $^{90}$Zr(d,n)    1972Ho28

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

E=12 MeV; 98% $^{90}$Zr target, pulsed beam (FWHM=0.7 ns), tof, FWHM=100 keV (g.s.) to 60 keV (at≈5 MeV excitation).
Measured $\sigma(\theta)$. $\theta$(lab)=15°−60° (5° steps). DWBA analysis.

### $^{91}$Nb Levels

| E(level) | L[†] | S[‡] | Comments |
|---|---|---|---|
| 0 | 4+1 | 0.97+0.32 | 100-keV level not resolved. |
| 1600 *20* | 1 | 0.08 | S: if J=3/2. S=0.26 if J=1/2. |
| 3390 *20* | 2 | 0.29 | S: if J=5/2. S=0.51 if J=3/2. |
| 4170 *20* | | | |
| 4450 *20* | 0 | 0.07 | |
| 4550 *20* | | | |
| 4690 *20* | | | |
| 5230 *20* | 0 | 0.02 | |
| 5310 *20* | 2 | 0.04 | S: if J=5/2. S=0.06 if J=3/2. |
| 5400 *20* | 2 | 0.035 | S: if J=5/2. S=0.061 if J=3/2. |
| 5510 *20* | 2 | 0.07 | S: if J=5/2. S=0.13 if J=3/2. |
| 5710 *20* | | | |
| 5880 *20* | 0 | 0.15 | |

[†] From DWBA analysis.
[‡] S from DWBA analysis. Systematic uncertainty of absolute cross sections is 15%.