## $^{80}$Kr($\alpha$,p)    1983StZQ

| | | History | |
| Type | Author | Citation | Literature Cutoff Date |
| --- | --- | --- | --- |
| Full Evaluation | E. A. Mccutchan | NDS 125, 201 (2015) | 31-Dec-2014 |

E(d)=26 MeV. Measured $\sigma(\theta)$ using multi-angle magnetic spectrograph and Ilford K-2 nuclear emulsion plates (FWHM≈65 keV); DWBA analysis.

### $^{83}$Rb Levels

| E(level) | $J^{\pi\dagger}$ | $S^{\ddagger}$ | Comments |
| --- | --- | --- | --- |
| 0 | 5/2$^-$,3/2$^-$ | <3.8,3.6 | |
| 38 | 9/2$^+$ | <3.0 | |
| 100 | 1/2$^-$,3/2$^-$ | 9.1,4.5 | |
| 440 | 3/2$^-$ | 1.56 | |
| 823 | 3/2$^-$ | 2.12 | |
| 1092 | 9/2$^+$,7/2$^+$ | 0.67,1.14 | |
| 1340 | 3/2$^-$,5/2$^-$ | 1.01,0.83 | |
| 1699 | 9/2$^+$,7/2$^+$ | 0.51,0.90 | |
| 1804 | 5/2$^+$ | 0.13 | |
| 1926 | 5/2$^+$ | 0.50 | |
| 2083 | 9/2$^+$,7/2$^+$,7/2$^-$ | | S: 0.76,1.43,1.40. |
| 2327 | 5/2$^+$,5/2$^-$,7/2$^-$ | | S: 1.10,1.98,1.02. |
| 2442 | 9/2$^+$,7/2$^+$,7/2$^-$ | | S: 0.19,0.33,0.30. |
| 2568 | 5/2$^+$,7/2$^+$ | 1.37,1.31 | |
| 2782 | 9/2$^+$,7/2$^+$,7/2$^-$ | | S: 0.34,0.65,0.63. |
| 2907 | 5/2$^+$ | 0.79 | |
| 3421 | 5/2$^+$ | 1.60 | |

$^{\dagger}$ From J-dependence of DWBA. Levels with angular distributions characteristic of a sum of J-values are assumed to be unresolved doublets. Many assignments must be considered very tentative as data are of very low quality.

$^{\ddagger}$ S=$\sigma$(exp)/$\sigma$(DWBA). Authors provide a general statement that uncertainties are 20%.