

$^{80}\text{Kr}(\text{d},\text{p}),(\text{pol d},\text{p}) \quad 1985\text{Bu14,1975Ch11}$ 

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia	NDS 199,271 (2025)		1-Sep-2024

Other: [1976Me08](#).[1985Bu14](#): E(pol d)=11 MeV, 93%  $^{80}\text{Kr}$  target,  $\theta(\text{lab})=20^\circ-85^\circ$ , FWHM=30, 65 keV,  $\Delta E$ -E telescopes; measured  $\sigma(\theta)$ , vector analyzing power; DWBA analysis.[1975Ch11](#): 76.2%  $^{82}\text{Kr}$  target, E=11 MeV, Si(Li), FWHM≈30 keV; DWBA analysis.[1976Me08](#): Proposed that the 0-keV level of [1975Ch11](#) was actually the 49-keV level found in other reaction measurements, and in decay studies. Systematics support this assumption. Subsequently, all works follow [1976Me08](#). $^{81}\text{Kr}$  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>	E(level) <sup>†</sup>
50	9/2 <sup>+</sup>	4	0.25	1744	(1/2 <sup>-</sup> )	1	0.04	3630
190	1/2 <sup>-</sup>	1	0.25	1888	5/2 <sup>+</sup>	2	0.03	3750
457	5/2 <sup>-</sup>	3	0.36	2218	5/2 <sup>+</sup>	2	0.09	3820
552	5/2 <sup>+</sup>	2	0.08	2365	1/2 <sup>+</sup>	0	0.03	4180
637	3/2 <sup>-</sup>	1	0.07	2421	1/2 <sup>+</sup>	0	0.04	4470
732	5/2 <sup>+</sup>	2	0.02	2530				4560
920	3/2 <sup>-</sup>	1	0.04	2680				4690
980	1/2 <sup>+</sup>	0	0.16	2830				4820
1098	5/2 <sup>+</sup>	2	0.19	3070				4960
1281	3/2 <sup>+</sup>	2	0.04	3270				5130
1492	1/2 <sup>+</sup>	0	0.04	3310				
1678	9/2 <sup>+</sup>	4	0.17	3460				

<sup>†</sup> From [1985Bu14](#) (data for E>2500 taken from figs. 1 and 2). Agreement with E from [1975Ch11](#) (when increased by 49 keV as proposed in [1976Me08](#)) is excellent wherever data overlap.  $\Delta E$  is not stated, but E is within 4 keV of adopted energies deduced from Ey data.

<sup>‡</sup> From DWBA analysis of  $\sigma(\theta)$ , normalization factor=1.53 ([1985Bu14](#)). S values from [1975Ch11](#) are larger by factors of ≈1 to ≈3; [1985Bu14](#) attribute this to the use in [1975Ch11](#) of potentials derived for unpolarized deuterons on neighboring Kr isotopes.

# From L and vector analyzing power ([1985Bu14](#)).