⁴⁸Ca(⁶Li, ⁶Li') **2010Kr06**

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2010Kr06: E=240 MeV 6 Li beam from the Texas A&M K500 superconducting cyclotron. Target was a 4.4 mg/cm 2 95% enriched self-supporting 48 Ca foil. Scattered particles were momentum-analyzed with a multipole-dipole-multipole magnetic spectrometer and detected with the focal-plane detector consisting of four 60cm resistive wire proportional counters, an ionization chamber and a scintillator. Measured $\sigma(\theta_{c.m.}=4^{\circ}$ to 40°). Deduced transition strengths from DWBA analysis with Double-folding model.

⁴⁸Ca Levels

E(level)	\mathbf{J}^{π}	Comments
0	0+	
3832	2+	B(E2)↑=0.0116 12, 0.0126 13, 0.0140 14, 0.0155 16; with different optical model parameter sets. Weighted
		average of those values gives 0.0131 12.
4507	3-	$B(E3)\uparrow = 0.0075 \ 8, \ 0.0083 \ 8, \ 0.0085 \ 9, \ 0.0094 \ 9, \ 0.0105 \ 11;$ with different optical model parameter sets. Weighted
		average of those values gives 0.0087 8.