

${}^{40}\text{Ca}(\alpha, {}^6\text{Li})$  1976Ma50

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
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1976Ma50: E=46 MeV alpha beam was produced from the Michigan State University cyclotron. Target was  $371 \mu\text{g}/\text{cm}^2$   ${}^{80}\text{Ca}$ .

Reaction products were momentum-analyzed with a split-pole spectrograph and detected with a dual proportional counter. Measured  $\sigma(\theta)$ . Deduced levels, J,  $\pi$ , L-transfers from DWBA analysis. Comparisons with shell-model calculations.

1979Lo11: E=100 MeV. Measured  $\sigma(\theta)$ , deduced reaction mechanism.

All data are from 1976Ma50, unless otherwise noted.

 ${}^{38}\text{K}$  Levels

<u>E(level)</u>	<u>J<math>\pi</math><sup>†</sup></u>	<u>L</u>	<u>Comments</u>
0	3 <sup>+</sup>	4	
460	1 <sup>+</sup>	0+2	L: dominantly L=2.
1700	1 <sup>+</sup>	0+2	

<sup>†</sup> From Adopted Levels.