

Abstract Submitted
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Characterization of levels in ^{17}O from the reaction $^{12}\text{C}(^7\text{Li},\text{d})^{17}\text{O}$ at 34 MeV¹ A.M. CRISP, W.D. WEINTRAUB, B.T. ROEDER, K.W. KEMPER, O. MOMOTYUK, M. WIEDEKING, Florida State University, N. KEELEY, Saclay, France, F. MARÉCHAL, Institut de Recherches Subatomiques, Strasbourg, France, K. RUSEK, Warsaw, Poland — Angular distributions and analyzing power data have been taken for the reaction $^{12}\text{C}(^7\text{Li},\text{d})^{17}\text{O}$ at 34 MeV using the FSU Tandem/LINAC accelerator. Selective population of ^{17}O levels at 6.86, 7.58, 8.47, 11.82, 12.00, 12.22, and 12.42 MeV were observed. Possible spin values have been determined for the states listed above 11 MeV by comparisons to angular distributions and analyzing powers of other ^{17}O levels with known spin, and by DWBA calculations. The spin values of the states and suggestions for their structure will be presented.

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