

Population of Cluster States in $^{15,16}\text{O}$ via ^7Be -induced Reactions.

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The reactions $^{12}\text{C}(^7\text{Be},^3\text{He})^{16}\text{O}$ and $^{12}\text{C}(^7\text{Be},^4\text{He})^{15}\text{O}$ have been studied at $E(^7\text{Be})=34$ and 28 MeV. The exotic ^7Be beam was produced via the low-energy transfer reaction $^3\text{He}(^6\text{Li},^7\text{Be})^2\text{H}$, then collected and focused on a ^{12}C target by the University of Michigan-University of Notre Dame TwinSol RNB facility. Known alpha-clustering states in ^{16}O and ^{15}O were observed. The results of this work will be discussed in this poster.