

Structure Beyond the Dripline in the Boron Isotopes: from ^{18}B to ^{21}B

As part of the first phase program of experiments utilizing the SAMURAI spectrometer and NEBULA neutron array, we have undertaken invariant mass spectroscopy of $^{18,19,20,21}\text{B}$ using the complementary probes of neutron and proton knockout. After a brief introduction to the experimental setup and analysis techniques, the results for $^{18,19}\text{B}$ are discussed where, in addition to substantially improving our knowledge of the known threshold states in both systems, evidence for new levels has been found. Finally, the first observations of $^{20,21}\text{B}$ are presented.

Summary

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