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Cluster formation around the neutron drip-line

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The formation of clusters in finite and infinite nuclear systems is an issue of great interest in nuclear physics. Recently, experiments have revealed a negative correlation between alpha-cluster formation and neutron number in Sn isotopes, showing a trend opposite to that theoretically conjectured for Be and B isotopes.
Here, we investigate the cluster formation in Be and B isotopes to elucidate the clustering near the neutron drip line. The results indicate that the excess neutrons contribute to the formation of 6He and 8He clusters as well as alpha clusters.

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