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Universal few-body clusters in cold atoms

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Few-body systems can show universal cluster states when their inter-particle scattering length is much larger than range of the interactions. Prime examples are three-body bound states called the Efimov states, which have been argued to appear in various physical systems such as halo nuclei and Hoyle states of ^{12}C , and recently clearly observed in experiments with atoms. Those observations motivated theoretical and experimental attempts to extend the paradigm of Efimov physics and related universal few-body phenomena towards systems with more than three particles or with higher angular momentum. We will give overview of these studies, together with some of our recent theoretical work with cold atoms toward these directions.

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