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H I G H E N E R G Y P H Y S I C S C O L L O Q U I A

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FROM CORRELATIONS TO UNIVERSALITY

Abstract

The short-range interaction between particles many times shows a strong repulsion that strongly correlates the many-body system. In the particular case of a two-body shallow state, very extended compared to the range of the interaction, the three-body system has universal behavior. There is an infinite number of states geometrically accumulated at $E = 0$. This is the Efimov effect predicted by V. Efimov in 1970 and experimentally verified more than 25 years later. I will discuss how universal behavior emerges in strongly correlated systems as liquid drops or light nuclear systems and how this behavior propagates as the number of particle increases.

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