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Observation of Efimov states in ultracold atoms

Monday 2 September 2019 09:00 (35 minutes)

Efimov states form in a three-body system when the pair-wise interactions are resonantly enhanced. Predicted by Vitaly Efimov in 1970, first Efimov state was observed in 2006 in ultracold cesium atoms near a Feshbach resonance. Since then, dozens of Efimov states have been identified in cold alkali and helium atoms.

In this talk, I will describe the intriguing history of the observation of the first Efimov state, unexpected Efimov universality, confirmation of Efimov geometric scaling, and various extensions of Efimov physics to complex systems.

Presenter: CHIN, Cheng (University of Chicago)

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