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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.

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