

Einladung zum Physikalischen Kolloquium

Montag, 14.06.2010, 16.15 Uhr im H2 (025)



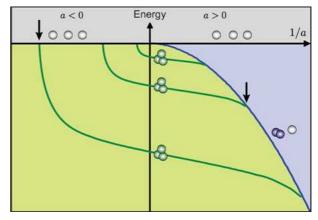
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Forty years of Efimov physics: How are bizarre prediction turned into a hot topic

In 1970, the Russian physicist Vitaly Efimov considered the challenging quantum three-body problem and found a stunning class of solutions with bizarre and counterintuitive properties. These "Efimov states" remained a mere theoretical oddity for more than three decades, and experimental attempts in nuclear and molecular physics failed to provide evidence. The situation changed dramatically when ultracold

atomic gases with tunable interactions became available. In 2005, our group in Innsbruck reported on the first evidence for Efimov states in an ultracold gas of cesium atoms. Since then the field has undergone a rapid development, and we now celebrate the 40th anniversary of Efimov states with rapid progress in the very active new research field of fewbody physics with ultracold atoms.



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