



ID de Contribution: 15

Type: **Non spécifié**

Universal physics with three or four particles

mardi 14 octobre 2014 09:00 (40 minutes)

Recent studies using the adiabatic hyperspherical representation have helped to provide an understanding of the universal three-body parameter for both homonuclear and heteronuclear systems characterized by van der Waals plus short-range interactions. This talk will discuss the current state of theoretical analyses of this important aspect of the universal Efimov effect, and what has been learned from recent experimental studies of the three-body parameter. Extensions of these hyperspherical ideas to handle four-body systems will also be presented, including a recent exploration of charge transfer collisions in the polyelectron system consisting of two electrons and two positrons.

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Classification de Session: Scaling and Universality