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## Efimov properties of three-atomic systems

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Weakly bound small Helium clusters attracted considerable attention in recent years, in particular because of the great interest in Bose-Einstein condensation of ultra-cold gases. Many theoretical calculations of these systems were performed for various interatomic potentials. Variational, hyperspherical and Faddeev-type techniques have been employed in this context [1]–[3]. It was found that the Helium trimer has two bound states of total angular momentum zero: a ground state of about 126 mK and an excited state of about 2.28 mK. We review our results on binding energies [4] and scattering observables in Helium three-atomic systems and show the Efimov nature of the excited state of  $^4\text{He}_3$ .

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