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Binding energies of the system of two dipoles in two dimensions

We investigate the system of two dipoles, that are restricted to move in a plane. Such a model simulates the polar molecules interacting in one layer of a pancake-shaped optical trap. In order to study the bound states of two dipoles the proposed numerical algorithm for calculation of the energy spectrum of a 2D two-particle system with an anisotropic interaction [JETP 125 №1, 35 (2017)] is applied. An influence of a mutual orientation of the dipoles on binding energies is studied.

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