

THEORETICAL STUDY OF SMALL-SCALE CONVECTIVE CLUSTERS IN WATER

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Properties of the convective turbulence in liquid have been studied based on solutions of the reduced Bussinesque equations. It is shown that when interacting the convective pulsations either unite or are destroyed. Characteristic scales of convective elements have been obtained, whose value essentially depends on stratification of liquid. It also follows from the theory that the small-scale two-centimeter pulsations can unite into convective cells of the next hierarchical level of a much greater size. This corresponds to the observations data.