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Regularity criteria for 3D Boussinesq equations with zero thermal diffusion. (English)

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Summary: In this article, we consider the three-dimensional (3D) incompressible Boussinesq equations with zero thermal diffusion. We establish a regularity criterion for the local smooth solution in the framework of Besov spaces in terms of the velocity only.

MSC:

35Q35 PDEs in connection with fluid mechanics

35B65 Smoothness and regularity of solutions to PDEs

76R10 Free convection

Cited in **2** Documents

Keywords:

3D Boussinesq equations; Besov spaces; regularity criterion

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