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Global well-posedness for Euler-Boussinesq system with critical dissipation. (English)

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Summary: We study a fractional diffusion Boussinesq model which couples the incompressible Euler equation for the velocity and a transport equation with fractional diffusion for the temperature. We prove global well-posedness results.

MSC:

- 76D03 Existence, uniqueness, and regularity theory for incompressible viscous fluids
- 35Q35 PDEs in connection with fluid mechanics
- 76D05 Navier-Stokes equations for incompressible viscous fluids

Cited in **1** Review
Cited in **105** Documents

Keywords:

Boussinesq system; paradifferential calculus; transport equations

Full Text: [DOI](#)

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