

Two-dimensional Boussinesq equations in general Sobolev spaces

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In this talk, I will present the existence, uniqueness as well as regularity results for the two-dimensional incompressible Boussinesq equations with temperature-dependent thermal and viscosity diffusion coefficients in general Sobolev spaces. The optimal regularity exponent ranges will also be considered.

This talk is based on a joint work with Xian Liao (Karlsruhe Institute of Technology).