## Research report for 2019 - 2020

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## Preprint

• The R—bounded operator families arising from the study of the barotropic compressible flows with free surface,

submitted (2019), https://arxiv.org/abs/1910.09854

• Joint with Hirokazu Saito

Unique solvability of elliptic problems associated with two-phase incompressible flows in unbounded domains,

submitted (2019), https://arxiv.org/abs/1912.00135