

## 論文リスト

勝呂剛志

### 論文

- [1] Kubo, H., Ogawa, T., and Suguro, T., *Beckner type of the logarithmic Sobolev and a new type of Shannon's inequalities and an application to the uncertainty principle*, Proc. Amer. Math. Soc. **147** (2019), 1511–1518, DOI: 10.1090/proc/14350.
- [2] Suguro, T., *Well-posedness and unconditional uniqueness of mild solutions to the Keller–Segel system in uniformly local spaces*, J. Evol. Equ. **21** (2021), 4599–4618, DOI: 10.1007/s00028-021-00727-w.
- [3] Ogawa, T. and Suguro, T., *Asymptotic behavior of a solution to the drift-diffusion equation for a fast-diffusion case*, J. Differential Equations **307** (2022), 114–136, DOI: 10.1016/j.jde.2021.10.032.
- [4] Suguro, T., *Shannon's inequality for the Rényi entropy and an application to the uncertainty principle*, J. Funct. Anal. **283** (2022), 26pp, DOI: 10.1016/j.jfa.2022.109566.
- [5] Ogawa, T. and Suguro, T., *Maximal regularity of the heat evolution equation on spatial local spaces and application to a singular limit problem of the Keller–Segel system*, Math. Ann. (2022), 43pp, DOI: 10.1007/s00208-022-02469-7.
- [6] Ogawa, T., Suguro, T., and Wakui, H., *Finite time blow-up and concentration phenomena for a solution to drift-diffusion equations in higher dimensions*, Calc. Var. Partial Differ. Equ. **62** (2023), DOI: 10.1007/s00526-022-02345-x.
- [7] Suguro, T., *Well-posedness of mild solutions to the drift-diffusion and the vorticity equations in amalgam spaces*, J. Math. Anal. Appl. **520** (2023), 17pp, DOI: 10.1016/j.jmaa.2022.126843.

### Preprints

- [8] Ogawa, T., Sato, R., and Suguro, T., *Existence of weak solutions to the drift-diffusion equation for a degenerate case in uniformly local spaces*, preprint.

### 報告集など

- [9] 勝呂 剛志, “Beckner の対数型 Sobolev の不等式の双対不等式と対数型不確定性原理”, 第 40 回発展方程式若手セミナー報告集 (2018), 245–251.
- [10] 勝呂 剛志, “Rényi エントロピーに対する Shannon の不等式とその応用”, 第 41 回発展方程式若手セミナー報告集 (2019), 187–194.
- [11] 勝呂 剛志, “Rényi エントロピーに対するモーメント不等式と不確定性原理”, 第 16 回数学総合若手研究集会: 数学の交叉点, (2020), 425–434.
- [12] 勝呂 剛志, “ある Keller–Segel 系の初期値問題の一様局所 Lebesgue 空間における適切性について”, 第 42 回発展方程式若手セミナー報告集 (2022), 153–160.