

研究業績一覧

1. 学術雑誌論文（査読付き）

- [1] M. Umehara and A. Tani, Free-boundary problem of the one-dimensional equations for a viscous and heat-conductive gaseous flow under the self-gravitation, *Math. Mod. Meth. Appl. Sci.*, **23** (2013), 1377-1419.
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2. 国際会議プロシーディングス（査読付き）

- [1] M. Umehara, Global existence of the spherically symmetric flow of a self-gravitating viscous gas, In: *Nonlinear Dynamics in Partial Differential Equations*, edited by S.-I. Ei, S. Kawashima, M. Kimura and T. Mizumachi, 515-522, Adv. Stud. Pure Math., **64**, Math. Soc. Japan, 2015.
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- [1] M. Umehara, A free-boundary problem for the spherically symmetric motion of a viscous heat-conducting and self-gravitating gas, In: *Mathematical analysis in fluid and gas dynamics (The 22th workshop)*, edited by M. Suzuki, 119-127, RIMS Kōkyūroku, **2215**, RIMS Kyoto Univ., 2022.

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- [3] M. Umehara, Large-time existence of the spherically symmetric flow of a self-gravitating viscous gas, In: *Unified understanding of self-organizations in N-body systems governed by long-range interaction* (RIMS 共同研究: 長距離力に支配された多体系自己組織化の統一的理解を目指して), edited by Y. Yatsuyanagi and H. Ohtsuka, 105-115, RIMS Kōkyūroku, **1885**, RIMS Kyoto Univ., 2014.
- [4] M. Umehara, On the free-boundary problem for self-gravitating viscous gaseous models, In: *Seminar on mathematical sciences 12*, edited by H. Soga (chief), 94-108, Ibaraki Univ., 2009.
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- [6] M. Umehara and A. Tani, Global existence of the solution to the system for a spherically symmetric viscous gaseous star with rigid core, In: *The 3rd COE conference for young researchers (第3回数学総合若手研究集会)*, edited by A. Suzuki (chief), 238-242, Hokkaido Univ. Tech. Rep. Ser. Math., **117**, Hokkaido Univ., 2007.
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4. 学位論文

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5. 口頭発表I (国際の研究集会)

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6. 口頭発表 II (学会、その他の研究集会)

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- [3] 梅原守道, 粘性気体星の運動の数学解析, 現象解析特別セミナー第 6 回, 東京理科大学, September 5, 2014.
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- [5] 梅原守道, 星の脈動の方程式について, 現象解析特別セミナー第 4 回, 東京理科大学, September 28, 2013.
- [6] 梅原守道, Large-time existence of the spherically symmetric flow of a self-gravitating viscous gas, RIMS 共同研究: 長距離力に支配された多体系自己組織化の統一的理解を目指して, 京都大学数理解析研究所, June 21, 2013.
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7. 口頭発表 III (教室セミナー等)

- [1] 自己重力粘性ガスの球対称運動について, 2016 年度第 3 回明治非線型数理セミナー, 明治大学, Augst 31, 2016.

- [2] 自己重力粘性ガスの運動の時間大域的な存在について, 明治非線型数理 one day seminar, 明治大学, March 12, 2014.
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以上