潘星宏

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教育背景

南京大学, 博士，数学与应用数学，导师：尹会成 2010.09 -- 2017.03

南京大学, 学士，数学与应用数学 2006.09 -- 2010.06

工作经历

南京航空航天大学，数学学院，专聘副研究员，在职； 2022.01 -- 至今

南京航空航天大学，理学院，讲师； 2017.04 -- 2021.12

美国加州大学河滨分校，数学系，联合培养博士, 导师：张旗 2014.12 -- 2016.12

美国加州大学河滨分校，数学系，访问学者。 2013.01 -- 2013.03

研究方向

- 流体动力学;
- 非线性偏微分方程理论。

科研项目

- 具轴对称 Navier-Stokes 方程解的性态研究，国家青年科学基金项目，2019.01-2021.12，主持;
- 轴对称 Navier-Stokes 方程 D 解衰减性和消失性研究，省自然科学基金青年基金，2018.07-2021.06，主持;
- 高雷诺数及宏观微观流体力学方程的数学理论，国家自然科学基金重点项目，2021.01-2025.12，参与。

人才计划

- 江苏省双创计划，双创博士，省中组部，2019.01-2020.12。

学术论文（部分）

- Li, Zijin; **Pan, Xinghong**; One component regularity criteria for the axially symmetric MHD-Boussinesq system. *Discrete Contin. Dyn. Syst.* 42 (2022), no. 5, 2333–2353.
- Li, Zijin; **Pan, Xinghong**; A single-component BKM-type regularity criterion for the inviscid axially symmetric Hall-MHD system. J. Math. Fluid Mech. 24 (2022), no. 1, Paper No. 16, 19 pp.
- Dong, Hongjie; **Pan, Xinghong**; On conormal derivative problem for parabolic equations with Dini mean oscillation coefficients. *Discrete Contin. Dyn. Syst.* 41 (2021), no. 10, 4567–4592.
- **Pan, Xinghong**; Liouville theorem of D-solutions to the stationary magnetohydrodynamics system in a slab. *J. Math. Phys.* 62 (2021), no. 7, Paper No. 071503, 14 pp.
- **Pan, Xinghong**; Stability of smooth solutions for the compressible Euler equations with time-dependent damping and one-side physical vacuum. *J. Differential Equations* 278 (2021), 146–188.
- **Pan, Xinghong**; Global existence and convergence to the modified Barenblatt solution for the compressible Euler equations with physical vacuum and time-dependent damping. *Calc. Var. Partial Differential Equations* 60 (2021), no. 1, Paper No. 5, 43 pp.
- Carrillo, Bryan; **Pan, Xinghong**; Zhang, Qi S.; Zhao, Na; Decay and vanishing of some D-solutions of the Navier-Stokes equations. *Arch. Ration. Mech. Anal.* 237 (2020), no. 3, 1383–1419.
- Carrillo, Bryan; **Pan, Xinghong**; Zhang, Qi S.; Decay and vanishing of some axially symmetric D-solutions of the Navier-Stokes equations. *J. Funct. Anal.* 279 (2020), no. 1, 108504, 49 pp.
- Li, Zijin; **Pan, Xinghong**; On the vanishing of some D-solutions to the stationary magnetohydrodynamics system. *J. Math. Fluid Mech.* 21 (2019), no. 4, Paper No. 52, 13 pp.

- **Pan, Xinghong**; Xu, Jiang; Global existence and optimal decay estimates of the compressible viscoelastic flows in L^p critical spaces. *Discrete Contin. Dyn. Syst.* 39 (2019), no. 4, 2021–2057.
- Li, Zijin; **Pan, Xinghong**; Some remarks on regularity criteria of axially symmetric Navier-Stokes equations. *Commun. Pure Appl. Anal.* 18 (2019), no. 3, 1333–1350.
- **Pan, Xinghong**; Zhu, Lu; The combined quasineutral and low Mach number limit of the Navier-Stokes-Poisson system. *Z. Angew. Math. Phys.* 70 (2019), no. 1, Paper No. 29, 21 pp.
- **Pan, Xinghong**; Blow up of solutions to 1-d Euler equations with time-dependent damping. *J. Math. Anal. Appl.* 442 (2016), no. 2, 435–445.
- **Pan, Xinghong**; Regularity of solutions to axisymmetric Navier-Stokes equations with a slightly supercritical condition. *J. Differential Equations* 278 (2021), 146–188.
- **Pan, Xinghong**; Global existence of solutions to 1-d Euler equations with time-dependent damping. *Nonlinear Anal.* 132 (2016), 327–336.

其他

MathSciNet, arXiv, Github, ResearchGate,