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教师介绍

于海波

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于海波

◆个人简介

于海波, 男, 2014年7月毕业于厦门大学基础数学专业, 获博士学位, 现为华侨大学数学科学学院副教授。

◆教学情况 (含本科教学、研究生教学):

《线性代数》, 《概率论与数理统计》, 《微分方程与动力系统》, 《非线性泛函分析》, 指导2015级硕士研究生1名。

◆主持科研项目:

a, 2016.1-2016.12, 国家自然科学基金(天元基金)

各向异性Navier-Stokes和MHD方程边值问题整体正则性(11526091), 主持

b, 2018.1-2020.12, 国家自然科学基金(青年基金)

可压缩等温Navier-Stokes方程整体适定性问题研究(11701192), 主持

◆研究领域及成果:

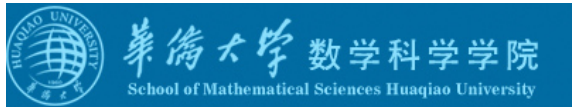
从事流体力学中偏微分方程的研究, 相关成果发表在《JDE》、《Nonlinearity》、《JMP》等SCI杂志。具体如下:

- [1] Liu S Q, Yu H B, Zhang J W*, Global weak solutions of 3D compressible MHD with discontinuous initial data and vacuum. **Journal of Differential Equations**, 2013, 254(1): 229-255.
- [2] Yu H B, Global classical large solutions with vacuum to 1D compressible MHD with zero resistivity. **Acta applicandae mathematicae**, 2013, 128(1): 193-209.
- [3] Yu H B, A blow-up criterion of strong solutions to the 3D compressible MHD equations with vacuum. **Journal of Mathematical Analysis and Applications**, 2013, 406(2): 437-446.
- [4] Zhang P X, Yu H B*, Global regularity to the 3D incompressible MHD equations. **Journal of Mathematical Analysis and Applications**, 2015, 432(2): 613-631.
- [5] Yu H B*, Zhang P X, Global strong solutions to the incompressible Navier–Stokes equations with density-dependent viscosity. **Journal of Mathematical Analysis and Applications**, 2016, 444(1): 690-699.
- [6] Yu H B, Global regularity to the 3D MHD equations with large initial data in bounded domains. **Journal of Mathematical Physics** 57, 083102 (2016).
- [7] Yu H B*, Zhao J N, Global classical solutions to the 3D isentropic compressible Navier–Stokes equations in a bounded domain. **Nonlinearity**, 2017, 30: 361–381. This results are included as separate subsections to the monograph "Mathematical Modeling in Fluid Mechanics" accepted to be published in CRS Publisher.
- [8] Yu H B, Global regularity to the 2D incompressible MHD with mixed partial dissipation and magnetic diffusion in a bounded domain. **Acta Mathematica Scientia**, 2017, 37B(2): 395-404.
- [9] Yu H B, Xu H, Zhu M X*, Global regularity to the 3D generalized MHD equations with large initial data. **Applied Mathematics Letters**, 68 (2017) 117–121.
- [10] Xu H, Yu H B*, Global strong solutions to the 3D inhomogeneous heat-conducting incompressible fluids. **Applicable Analysis**, DOI: 10.1080/00036811.2017.1399362.
- [11] Yu H B*, Zhang P X, Shi X J, Global strong solutions to the 3D incompressible MHD equations with density-dependent viscosity. **Computers and Mathematics with Applications**, DOI: 10.1016/j.camwa.2018.01.012.

[12] Wang W, Yu H B, Zhang P X*, Global strong solutions for 3D viscous incompressible heat conducting Navier-Stokes flows with the general external force. **Mathematical Methods in the Applied Sciences**, DOI: 10.1002/mma.4915.

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