四川大学
SICHUAN UNIVERSITY

网站首页　　学院概况　　师资队伍　　本科生教育　　研究生教育　　科学研究　　党委专栏　　学生工作

# 王泉

发布时间：2020年09月16日 16:11　浏览次数：4416



## 基本信息

姓名：王泉

职称：副研究员

导师：硕士生导师

研究领域：数学物理偏微分方程(无穷维动力系统理论、相变动力学理论

以及分歧理论在流体动力学与大气海洋流体动力学中的应用)

办公室：数学学院南206

电子邮件：   xihujunzi@scu.edu.cn

wqxihujunzi@126.com

**教育经历**

时间单位学位

2014.9-2017.6四川大学数学学院博士

2011.9-2014.6四川大学数学学院硕士

2007.9-2011.6四川大学数学学院本科

工作经历

2020.10-至今四川大学数学学院 副研究员

2018.10-2020-09 四川大学数学学院 专职博士后

2017.7-2018.7 美印第安纳大学地球与大气科学学院博士后

2016.8-2017.6美国印第安纳大学地球与大气科学学院研究助理

**代表论文及著作**

Daozhi Han, Marco Hernandez, Quan Wang. Dynamic Transitions and Bifurcations for a Class of Axisymmetric Geophysical Fluid Flow.SIAM J. Appl. Dyn. Syst., 2021,20(1), 38–64.

Zhigang Pan, Chanh Q. Kieu, Quan Wang. Hopf bifurcations and transitions of two-dimensional Quasi-Geostrophic flows. Communications on Pure & Applied Analysis. 2021, Online.

Daozhi Han, Quan Wang, Xiaoming Wang. Dynamic transitions and bifurcations for thermal convection in the superposed free flow and porous media. Phys. D,2020,**414**: 132687.

Yiqiu Mao, Zhimin Chen, Chanh Q. Kieu, Quan Wang. On the stability and bifurcation of the non-rotating Boussinesq equation with the Kolmogorov forcing at a low Péclet number.Commun. Nonlinear Sci. Numer. Simul., 2020,**89:**105322.

Quan Wang, Dongming Yan. On the stability and transition of the Cahn-Hilliard/Allen-Cahn system. Discrete Contin. Dyn. Syst. Ser. B,2020,**25**(7):2607-2620.

Chun Hsien Lu, Yiqiu Mao, Taylan Sengul, Quan Wang. On the spectral instability and bifurcation of the 2D-quasi-geostrophic potential vorticity equation with a generalized Kolmogorov forcing. Phys. D,2020,**403:**132296.

Zhigang Pan, Taylan Sengul, Quan Wang.On the viscous instabilities and transitions of two-layer model with a layered topography. Commun.Nonlinear Sci. Numer. Simul.,2020,**80:**104978.

Ogul Esen, Daozhi Han, Sengul, Quan Wang.On the nonlinear stability and the existence of selective decay states of 3D quasi-geostrophic potential vorticity equation. Math. Method. Appl, Sci.,2020,**43**(2):822-846.

Saadet Ozer, Taylan Sengul, Quan Wang.Multiple equilibria and transitions in spherical MHD equations. Commun. Math. Sci., 2019, 17(6):1531-1555.

Quan Wang, Chanh Q. Kieu. Dynamics of transverse cloud rolls in the boundary layer with the Poiseuille shear flow. Phy. Fluids., 2019,**31**(9):096601.

Quan Wang, Chanh Q. Kieu, The Anh Vu.Large-scale dynamics of tropical cyclone formation associated with ITCZ breakdown.Atmos.Chem. Phys., 2019,**19**(13):8383-8397.

Chun Hsien Lu, Yiqiu Mao, Quan Wang, Dongming Yan. Hopf bifurcation and transition of three-dimensional wind-driven ocean circulation problem. J. Differential Equations, 2019,**267(**4):2560–2593.

Ruikuan Liu, Quan Wang. S^1 Attractor bifurcation analysis for an electrically conducting fluid flow between two rotating cylinders. Phys. D,2019,**392**:17-33.

DaozhiHan, MarcoHernandez, Quan Wang. On the instabilities and transitions of the western boundary current. Commun. Comput. Phys., 2019,**26**(1):35-56.

Chanh Q. Kieu, Quan Wang, Dongming Yan.Dynamical transitions of the quasi-periodic plasma model. Nonlinear Dynam., 2019,**96**(2):323–338.

DaozhiHan, MarcoHernandez, Quan Wang. Dynamic bifurcation and transition in the Rayleigh–Bénard convection with internal heating and varying gravity. Commun. Math. Sci., 2019,**17:**175-192.

Chanh Q. Kieu, Quan Wang.On the large-scale dynamics of f –plane zonally symmetric circulations.AIP Advances, 2019,**9**(1):015001.

Chanh Q. Kieu, Quan Wang., Shouhong Wang.On the structure and stability of the hurricane eyewall. Tellus A, 2018,**70**(1):1-14.

Jiayan Yang, Quan Wang, Ruikuan Liu. Exact steady-state solutions of 3D toroidal flows and their stability. J. Geom. Phys.,2018,**132**:205—221.

Chanh Q. Kieu, Taylan Sengul, Quan Wang, Dongming Yan. On the Hopf (double Hopf) Bifurcations and Transitions of Two-Layer Western Boundary Currents.Commun. Nonlinear Sci. Numer. Simul.,2018,**65:**196—215**.**

## 科研项目

编号项目名称

11901408非线性算子的动态跃迁理论在大气与海洋流体系统中的应用.主持

11771306非线性算子的动态跃迁理论. 参与（主要完成人）

【 关闭 】