

非圧縮性粘性流体の数理解析
Mathematical Analysis of Viscous Incompressible Fluid
RIMS 共同研究 (公開型) 報告集

2016年11月14日～11月16日
研究代表者 前川 泰則 (Yasunori Maekawa)
副代表者 柴田 良弘 (Yoshihiro Shibata)

目次

1.	A Partitioned Scheme for Fluid-Structure and Structure-Structure Interaction with Slip	-----	1
	Martina Bukač	Notre Dame U.	
	Sunčica Čanić	U. Houston / Stanford U.	
	Boris Muha	U. Zagreb	
2.	A note on the decay estimates for the compressible Navier-Stokes-Poisson system in critical Besov spaces	-----	26
	千頭 昇 (Noboru Chikami)	東北大・理学 (Tohoku U.)	
	Raphaël Danchin	UPEC	
3.	A fluid-particle system related to Vlasov-Navier-Stokes equations	-----	43
	Franco Flandoli	U. Pisa	
4.	Free boundary problems in magnetohydrodynamics	-----	60
	E. Frolova	St. Petersburg State U.	
5.	Short-wavelength analysis of magnetorotational instability of resistive MHD flows	-----	78
	福本 康秀 (Yasuhide Fukumoto)	九大・MI研 (Kyushu U.)	
	Rong Zou	Zhejiang Normal U.	
	Oleg Kirillov	Russian Acad. Sci.	
6.	Stability and Long-Time Behavior of a Pendulum with an Interior Cavity Filled with a Viscous Liquid	-----	90
	G. P. Galdi	U. Pittsburgh	
	G. Mazzone	Vanderbilt U.	

7 .	Note on the analysis of Orr-Sommerfeld equations and application to boundary layer stability	-----	108
	David Gerard-Varet	U. Paris Diderot	
	前川 泰則 (Yasunori Maekawa)	京大・理学 (Kyoto U.)	
8 .	THE L^p -APPROACH TO GLOBAL STRONG WELL-POSEDNESS OF THE PRIMITIVE EQUATIONS OF OCEAN DYNAMICS	-----	120
	Matthias Hieber	TU Darmstadt	
9 .	On derivation of incompressible fluid systems with heat equation	-----	130
	古場 一 (Hajime Koba)	阪大・基礎工学 (Osaka U.)	
1 0 .	Turbulence in quantum hydrodynamics	-----	148
	小林 未知数 (Michikazu Kobayashi)	京大・理学 (Kyoto U.)	
1 1 .	On the controllability of the Navier-Stokes equation in spite of boundary layers	-----	162
	Jean-Michel Coron	Sorbonne U.	
	Frédéric Marbach	”	
	Franck Sueur	U. Bordeaux	
1 2 .	On the spectrum for the linear artificial compressible system	-----	181
	寺本 有花 (Yuka Teramoto)	九大・数理学 (Kyushu U.)	