

Physics and Mathematics Graduate Program (M, D)

Graduate School	Department	Research Group	Supervisor/Staff			
			Professor	Associate Professor	Lecturer	Assistant Professor
Graduate School of Mathematics	Mathematics	Combinatorial Theory	Soichi Okada			
		Analytic Number Theory		Henrik Bachmann		
		Algebraic Number Theory	Kazuhiro Fujiwara	Hiroshi Suzuki Henrik Bachmann		Shun Okubo
		Arithmetic Geometry	Kazuhiro Fujiwara	Sho Tanimoto		Shun Okubo
		Number Theory	Hidekazu Furusho			
		Algebraic Geometry	Kazuhiro Fujiwara Akira Ishii	Shintaro Yanagida Sho Tanimoto		Genki Ouchi
		Fractal Geometry		Johannes Jaerisch		
		Algebraic Analysis				
		Commutative Algebra	Ryo Takahashi			
		Non-Commutative Algebra				
		Representation Theory	Tohru Uzawa Soichi Okada Tomoki Nakanishi Ryo Takahashi	Takahiro Hayashi Shintaro Yanagida Hiroyuki Nakaoka Yuki Arano		
		Category Theory		Hiroyuki Nakaoka		
		Topology	Hiroshi Ohta Hitoshi Moriyoshi	Tomomi Kawamura		
		Algebraic Topology	Lars Hesselholt			
		Homotopy Theory	Lars Hesselholt			
		Differential Geometry	Hiroshi Ohta Shin Nayatani Hitoshi Moriyoshi	Hisashi Naito Shinichiroh Matsuo Kentaro Ito		Takeshi Sato
		Hyperbolic Geometry		Kentaro Ito		
		Complex Geometry		Shinichiroh Matsuo		
		Graph Theory		Futaba Fujie Nanao Kita		
		Complex Analysis				
		Dynamical Systems		Shinichiroh Matsuo Johannes Jaerisch		
		Ergodic Theory		Johannes Jaerisch		
		Global Analysis	Hitoshi Moriyoshi	Shinichiroh Matsuo		
		Functional Analysis	Serge Richard			
		Operator Algebra	Yoshimichi Ueda	Yuki Arano		
		Fourier Analysis	Mitsuru Sugimoto	Jun Kato Yutaka Terasawa		
		Partial Differential Equations	Mitsuru Sugimoto Toshiaki Hishida Serge Richard	Jun Kato Yutaka Terasawa Hisashi Naito		Yasuhiro Sasahara
Differential Equations						

	Probability Theory	Nobuo Yoshida	Makoto Nakashima Masashi Kubo		
	Infinite Analysis	Tomoki Nakanishi	Hidetoshi Awata Takahiro Hayashi Shintaro Yanagida		
	Mathematical Physics	Hiroaki Kanno Tetsuya Shiromizu Taro Nagao Tomoki Nakanishi	Kazuhiko Minami	Masashi Hamanaka Keisuke Izumi	
	Applied Mathematics (Mathematical Biology, Nonlinear Dynamics, Quantum Foundations)	Toru Ohira			
	Elementary Particle Theory			Masashi Hamanaka	
	General Relativity	Tetsuya Shiromizu		Keisuke Izumi	
	Cosmology	Tetsuya Shiromizu		Keisuke Izumi	
	Statistical Mechanics	Taro Nagao Nobuo Yoshida	Kazuhiko Minami		
	Theoretical Condensed Matter	Taro Nagao	Kazuhiko Minami		
	Fluid Mechanics	Toshiaki Hishida	Yutaka Terasawa		
	Numerical Analysis				
	Information Theory	Masahito Hayashi	Masashi Kubo Ryuhei Mori		
	Quantum Information Theory	Masahito Hayashi François Le Gall	Ryuhei Mori		
	Quantum Cryptography	Masahito Hayashi			
	Theoretical Computer Science	Jacques Garrigue François Le Gall	Nanao Kita Ryuhei Mori		
	Algorithm Theory	François Le Gall	Nanao Kita Ryuhei Mori		
	Programming Languages	Jacques Garrigue			
	Type Theory	Jacques Garrigue			