

**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	Kohji Matsumoto	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	Shigeyuki Kondo Kazuhiro Fujiwara Akira Ishii	Shintaro Yanagida Sho Tanimoto		Genki Ouchi
		Fractal Geometry		Johannes Jaerisch		
		Commutative Algebra		Ryo Takahashi		
		Non-Commutative Algebra		Erik Darpo		
		Representation Theory	Tohru Uzawa Soichi Okada Tomoki Nakanishi	Takahiro Hayashi Ryo Takahashi Shintaro Yanagida Hiroyuki Nakaoka Erik Darpo		
		Category Theory		Hiroyuki Nakaoka		
		Topology	Hiroshi Ohta Hitoshi Moriyoshi	Tomomi Kawamura		
		Algebraic Topology	Lars Hesselholt			
		Homotopy Theory	Lars Hesselholt			
		Differential Geometry	Hiroshi Ohta Ryoichi Kobayashi Shin Nayatani Hitoshi Moriyoshi	Hisashi Naito Shinichiroh Matsuo Kentaro Ito		Takeshi Sato
		Hyperbolic Geometry		Kentaro Ito		
		Complex Geometry	Ryoichi Kobayashi	Shinichiroh Matsuo		
		Graph Theory		Futaba Fujie		
		Dynamical Systems		Shinichiroh Matsuo Johannes Jaerisch		
		Ergodic Theory		Johannes Jaerisch		
		Global Analysis	Hitoshi Moriyoshi	Shinichiroh Matsuo		
		Functional Analysis	Serge Richard			
		Operator Algebra	Yoshimichi Ueda			
		Fourier Analysis	Mitsuru Sugimoto	Jun Kato Yutaka Terasawa		Kazumasa Fujiwara
		Partial Differential Equations	Mitsuru Sugimoto Toshiaki Hishida Serge Richard	Jun Kato Yutaka Terasawa Hisashi Naito		Yasuhiro Sasahara Kazumasa Fujiwara
		Probability Theory	Nobuo Yoshida	Makoto Nakashima Masashi Kubo		
		Infinite Analysis	Tomoki Nakanishi	Hidetoshi Awata Takahiro Hayashi Shintaro Yanagida		
		Mathematical Physics	Hiroaki Kanno Yoshifumi Kimura Tetsuya Shiromizu Taro Nagao Masahito Hayashi	Kazuhiro Minami	Masashi Hamanaka Keisuke Izumi	
		Mathematical Biology	Toru Ohira			
		Elementary Particle Theory			Masashi Hamanaka	
		General Relativity	Tetsuya Shiromizu		Keisuke Izumi	
		Cosmology	Tetsuya Shiromizu		Keisuke Izumi	
		Statistical Mechanics	Taro Nagao Nobuo Yoshida	Kazuhiro Minami		
		Theoretical Condensed Matter	Taro Nagao	Kazuhiro Minami		
		Fluid Mechanics	Yoshifumi Kimura Toshiaki Hishida	Yutaka Terasawa		
		Numerical Analysis	Yoshifumi Kimura			
		Information Theory	Masahito Hayashi	Masashi Kubo		
		Quantum Information Theory	Masahito Hayashi	François Le Gall		
		Quantum Cryptography	Masahito Hayashi			
		Theoretical Computer Science	Jacques Garrigue	François Le Gall		
Algorithm Theory		François Le Gall				
Programming Languages	Jacques Garrigue					
Type Theory	Jacques Garrigue					