

**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 Hidekazu Furusho			
		Algebraic Number Theory	Kazuhiro Fujiwara Hidekazu Furusho	Hiroshi Suzuki		Shun Okubo
		Arithmetic Geometry	Kazuhiro Fujiwara Hidekazu Furusho			Shun Okubo
		Algebraic Geometry	Ryoichi Kobayashi Shigeyuki Kondo Kazuhiro Fujiwara	Yukari Ito Hiroshi Saito Shintaro Yanagida		Atsushi Ito
		Algebraic Analysis	Akihiko Gyoja			Kohei Iwaki
		Commutative Algebra		Ryo Takahashi		
		Non-Commutative Algebra	Osamu Iyama			
		Representation Theory	Osamu Iyama Tohru Uzawa Soichi Okada Akihiko Gyoja Tomoki Nakanishi	Hideyuki Ishi Takahiro Hayashi Ryo Takahashi Shintaro Yanagida		
		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	Hideyuki Ishi Hisashi Naito Shinichiroh Matsuo Kentaro Ito		Takeshi Sato		

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			Professor	Associate Professor	Lecturer	Assistant Professor
		Hyperbolic Geometry		Kentaro Ito		
		Complex Geometry		Hideyuki Ishi Shinichiroh Matsuo		Tomoyuki Hisamoto
		Graph Theory		Futaba Fujie		
		Complex Analysis		Kentaro Ito		
		Dynamical Systems		Shinichiroh Matsuo		Yuhei Suzuki
		Global Analysis	Hitoshi Moriyoshi	Shinichiroh Matsuo		
		Functional Analysis	Shigeru Yamagami			Yuhei Suzuki
		Fourier Analysis	Mitsuru Sugimoto	Jun Kato		

Graduate School of Mathematics	Mathematics			Yutaka Terasawa		
		Partial Differential Equations	Mitsuru Sugimoto Toshiaki Hishida	Jun Kato Kotaro Tsugawa Yutaka Terasawa Hisashi Naito		Yasuhiro Sasahara
		Differential Equations				Kohei Iwaki
		Probability Theory	Nobuo Yoshida	Makoto Nakashima Masashi Kubo		
		Infinite Analysis	Tomoki Nakanishi	Hidetoshi Awata Takahiro Hayashi Shintaro Yanagida		Kohei Iwaki
		Mathematical Physics	Hiroaki Kanno Yoshifumi Kimura Tetsuya Shiromizu Taro Nagao Tomoki Nakanishi	Kazuhiko Minami	Masashi Hamanaka	Keisuke Izumi
		Mathematical Biology	Toru Ohira			
	Elementary Particle Theory			Masashi Hamanaka		

### 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	General Relativity	Tetsuya Shiromizu			Keisuke Izumi
		Cosmology	Tetsuya Shiromizu			Keisuke Izumi
		Statistical Mechanics	Taro Nagao Nobuo Yoshida	Kazuhiko Minami		
		Condensed Matter Physics	Taro Nagao	Kazuhiko Minami		
		Fluid Mechanics	Yoshifumi Kimura Toshiaki Hishida	Yutaka Terasawa		
		Numerical Analysis	Yoshifumi Kimura			
		Information Theory	Masahito Hayashi	Masashi Kubo		
		Quantum Information Theory	Masahito Hayashi			
		Quantum Cryptography	Masahito Hayashi			
		Theoretical Computer Science	Jacques Garrigue			
		Programming Languages	Jacques Garrigue			
Type Theory	Jacques Garrigue					