

List of Supervisors and Research Fields

As of September 1, 2019

Department of Mathematics, Graduate School of Science

Master's Course

Fields	Supervisors		Keywords	Remarks
Algebra	Professor	Masanori Asakura	Arithmetic geometry	
	Professor	Mutsumi Saito	Algebraic analysis, rings of differential operators	
	Professor	Keiji Matsumoto	Special functions	
	Professor	Hiroshi Yamashita	Representation theory	
	Associate Professor	Youichi Shibukawa	Yang-Baxter equations and quantum groups	
	Associate Professor	Simona Settepanella	Singularity theory, combinatorics	
	Associate Professor	Kenichiro Tanabe	Vertex algebras, algebraic combinatorics	
	Associate Professor	Daisuke Matsushita	Algebraic geometry	
	Assistant Professor	Hiraku Atobe	Theory of automorphic representation	
Geometry	Professor	Toshiyuki Akita	Algebraic topology, group cohomology, discrete groups	
	Professor	Goo Ishikawa	Real algebraic geometry, singularity theory	
	Professor	Katsunori Iwasaki	Complex geometry, dynamical systems, Painlevé systems	
	Professor	Masahiko Yoshinaga	Algebraic geometry, combinatorics	
	Associate Professor	Shimpei Kobayashi	Differential geometry	
	Associate Professor	Masao Jinzenji	Mathematical physics	
	Associate Professor	Hitoshi Furuhashi	Differential geometry	
	Assistant Professor	Yutaka Kanda	Differential topology	
Analysis	Professor	Akihito Hora	Functional analysis, probability theory	
	Professor	Naofumi Honda	Algebraic analysis	
	Professor	Jun Masamune	Global Analysis	
	Associate Professor	Masaharu Kobayashi	Harmonic Analysis	
	Associate Professor	Reiji Tomatsu	Operator algebras	
	Associate Professor	Takahiro Hasebe	Probability theory, complex analysis, functional analysis	
	Associate Professor	Nao Hamamuki	Nonlinear partial differential equations, Theory of viscosity solutions	
	Associate Professor	Tadahiro Miyao	Mathematical physics, functional analysis, condensed matter physics	
Applied Mathematics	Professor	Shin-ichiro Ei	Nonlinear analysis, nonlinear partial differential equations	
	Professor	Hideo Kubo	Partial Differential Equations associated with Nonlinear Dynamics	
	Professor	Shuichi Jimbo	Applied analysis, Partial differential equations, Spectral theory	
	Professor	Masaharu Nagayama	Reaction-diffusion systems, mathematical modeling, numerical simulation	
	Professor	Takao Namiki	Ergodic theory, dynamical systems, complex systems	
	Professor	Michiko Yuri	Ergodic theory, dynamical systems, complex systems	
	Associate Professor	Hiroto Kuroda	Partial differential equations, variational analysis	
	Associate Professor	Yasuaki Kobayashi	Nonlinear dynamics	
	Associate Professor	Akira Sakai	Probability theory, statistical mechanics, mathematical physics	
	Associate Professor	Yuzuru Sato	Complex systems, chaotic dynamical systems	
	Associate Professor	Hiroshi Teramoto	Dynamical systems, singularity theory, chemical reaction dynamics	
	Associate Professor	Kenji Matsumoto	Biophysical complex systems, chaotic dynamical systems	
	Assistant Professor	Borislav Yordanov	Nonlinear wave equations and dissipative evolution equations	

※There is a possibility that the members of supervisors change. Please get the latest information from the website of the Graduate School of Science.

Department of CosmoSciences, Graduate School of Science

Master's Course

Laboratories	Supervisors		Keywords	Remarks
Observational Astronomy	Associate Professor	Kazuo Sorai	Observational astronomy, extragalactic astronomy, interstellar matter, development of observational instruments and system for the Antarctic THz telescope	
Particle Theory Group	Professor	Hisao Suzuki	Particle physics, beyond the standard model, dark matter, dark energy, grand unified theory, superstrings, supersymmetry, early universe	
	Professor	Tatsuo Kobayashi		
	Associate Professor	Ryuichi Nakayama		
	Specially Appointed Associate Professor	Osamu Seto		
	Lecturer	Kazuhiko Suehiro		
	Assistant Professor	Eun-Kyung Park		
Theoretical Nuclear Physics	Associate Professor	Masaaki Kimura	Quantum many-body problems, nuclear force, unstable nuclei, nucleosynthesis, hadronic matter	
	Lecturer	Wataru Horiuchi		
Theoretical Astrophysics	Visiting Associate Professor	Elizabeth Jane Tasker	Theoretical astronomy, numerical simulations, galaxy formation, galaxy clusters, supermassive black holes, interstellar matter, star formation, interstellar dust	Inter-field Cooperation with the Japan Aerospace Exploration Agency (JAXA) in the field of spacecraft observation.
	Lecturer	Takashi Okamoto		
	Assistant Professor	Alexander Pettitt		
Planetary and Space Group	Professor	Kiyoshi Kuramoto	Origin and evolution of planets and satellites, material evolution during planetary system formation, structure and dynamics of Earth and planetary atmospheres, comparative planetology, space exploration and ground-based observation, experimental studies, theory and hierarchical numerical simulation models, applications of information technology	
	Professor	Yukihiro Takahashi		
	Professor	Masaki Ishiwatari		
	Associate Professor	Shunichi Kamata		
	Specially Appointed Associate Professor	Junichi Kurihara		
	Lecturer	Mitsuteru Sato		
	Specially Appointed Assistant Professor	Tetsuro Ishida		
	Specially Appointed Assistant Professor	Seiko Takagi		

Laboratories	Supervisors		Keywords	Remarks
Astrophysical Chemistry / Ice and Planetary Science	Professor	Akira Kouchi	Interstellar molecules, ice dust, amorphous solid water, surface reactions	
	Professor	Naoki Watanabe		
	Associate Professor	Yuki Kimura		
	Assistant Professor	Hiroshi Hidaka		
	Assistant Professor	Tetsuya Hama		
	Assistant Professor	Yasuhiro Oba		
Phase Transition Dynamics	Professor	Gen Sazaki	Phase transition dynamics, crystal growth, ice, snow, interferometry, advanced optical microscopy, atomic force microscopy	
	Assistant Professor	Ken Nagashima		
	Assistant Professor	Ken-ichiro Murata		
Information Media Science	Professor	Izumi Fuse	Learning science, learning platforms, open education	
	Assistant Professor	Yuichi Yamamoto		
Nuclear Reaction Data Science	Associate Professor	Yoshiharu Hirabayashi	Nuclear data, nuclear reactions, evaluation	Information Initiative Center
	Visiting Professor	Tokio Fukahori		Inter-field Cooperation with the Japan Atomic Energy Agency (JAEA) in the field of nuclear data.
	Visiting Professor	Nobuyuki Iwamoto		
Spacecraft Observation Group	Visiting Professor	Takehiko Sato	Planetary exploration, infrared astronomy from space, radio astronomy from space	Inter-field Cooperation with the Japan Aerospace Exploration Agency (JAXA) in the field of spacecraft observation.
	Visiting Associate Professor	Yasuhiro Murata		
	Visiting Associate Professor	Issei Yammura		

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