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 | Hiroshi Hirai<br>Soichi Okada | Yusuke Nakamura | | |
| | | Analytic Number Theory | | Henrik Bachmann | | |
| | | Algebraic Number Theory | Kazuhiro Fujiwara | Henrik Bachmann | | |
| | | Arithmetic Geometry | Kazuhiro Fujiwara<br>Sho Tanimoto | | | |
| | | Number Theory | Hidekazu Furusho | | | |
| | | Algebraic Geometry | Akira Ishii<br>Kazuhiro Fujiwara<br>Sho Tanimoto<br>Shintaro Yanagida | Tomoyuki Hisamoto<br>Yusuke Nakamura | | Kento Osuga |
| | | Fractal Geometry | | Johannes Jaerisch | | |
| | | ~~Algebraic Analysis~~ | | | | |
| | | Commutative Algebra | Ryo Takahashi | | | |
| | | Representation Theory | Soichi Okada<br>Tomoki Nakanishi<br>Ryo Takahashi<br>Shintaro Yanagida | Mayu Tsukamoto<br>Takahiro Hayashi<br>Yuki Arano | | Aaron Chan |
| | | Ring Theory | Ryo Takahashi | Mayu Tsukamoto | | Aaron Chan |
| | | Topology | Hiroshi Ohta<br>Hitoshi Moriyoshi | Tomomi Kawamura | | |
| | | Algebraic Topology | Lars Hesselholt | | | |
| | | Homotopy Theory | Lars Hesselholt | | | |
| | | Differential Geometry | Hisashi Naito<br>Hiroshi Ohta<br>Shin Nayatani<br>Hitoshi Moriyoshi | Tomoyuki Hisamoto | | Takeshi Sato |
| | | Hyperbolic Geometry | | Johannes Jaerisch | | |
| | | Complex Geometry | Hisahi Kasuya | Tomoyuki Hisamoto | | |
| | | Discrete Geometric Analysis | Hisashi Naito | | | |
| | | Graph Theory | | Nanao Kita | | |
| | | Complex Analysis | | Johannes Jaerisch | | |
| | | Dynamical Systems | | Johannes Jaerisch | | |
| | | Ergodic Theory | | Johannes Jaerisch | | |
| | | Global Analysis | Hitoshi Moriyoshi | | | |
| | | Functional Analysis | Haruya Mizutani<br>Serge Richard<br>Yoshimichi Ueda | Bourne Chris | | |
| | | Operator Algebra | Yoshimichi Ueda | Yuki Arano<br>Bourne Chris | | |
| | | Fourier Analysis | Mitsuru Sugimoto | Jun Kato<br>Shinya Kinoshita<br>Yutaka Terasawa | | |
| | | Partial Differential Equations | Haruya Mizutani<br>Hisashi Naito<br>Mitsuru Sugimoto<br>Toshiaki Hishida<br>Serge Richard | Jun Kato<br>Shinya Kinoshita<br>Yutaka Terasawa | | Yasuhiro Sasahara |
| | | ~~Differential Equations~~ | | | | |
| | | Probability Theory | Nobuo Yoshida | Johannes Jaerisch<br>Makoto Nakashima<br>Masashi Kubo | | |
| | | Infinite Analysis | Shintaro Yanagida<br>Tomoki Nakanishi | Hidetoshi Awata<br>Takahiro Hayashi | | Kento Osuga |
| | | Mathematical Physics | Shintaro Yanagida<br>Tetsuya Shiromizu<br>Taro Nagao<br>Tomoki Nakanishi | Kazuhiko Minami<br>Keisuke Izumi<br>Bourne Chris | Masashi Hamanaka | Kento Osuga |
| | | 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<br>Nobuo Yoshida | Kazuhiko Minami | | |
| | | Theoretical Condensed Matter | Taro Nagao | Kazuhiko Minami | | |
| | | Fluid Mechanics | Toshiaki Hishida | Yutaka Terasawa | | |
| | | Numerical Analysis | Hisashi Naito | | | |
| | | Information Theory | Masahito Hayashi | Masashi Kubo<br>Ryuhei Mori | | |
| | | Quantum Information Theory | Masahito Hayashi<br>François Le Gall | Ryuhei Mori | | |
| | | Quantum Cryptography | Masahito Hayashi | | | |
| | | Theoretical Computer Sicence | Hiroshi Hirai<br>Jacques Garrigue<br>François Le Gall | Nanao Kita<br>Ryuhei Mori | | |
| | | Algorithm Theory | Hiroshi Hirai<br>François Le Gall | Nanao Kita<br>Ryuhei Mori | | |
| | | Programming Languages | Jacques Garrigue | | | |
| | | Type Theory | Jacques Garrigue | | | |
| | | Optimization Theory | Hiroshi Hirai | | | |
| | | Foundations of Mathematics | Takayuki Kihara | | | |
| | | Mathematical Logic | Takayuki Kihara | | | |