

## School of Interdisciplinary Research of Scientific Phenomena and Information

Code	Course Title	Lecturer
8411100	Special Seminar for Mathematics and Physics of Fundamental Structures 1	Shinya MORITOH Kenkichi MIYABAYASHI Hideko NAGAIRO
8411200	Special Seminar for Mathematics and Physics of Fundamental Structures 2	Tsuyoshi KOBAYASHI Tomohiko TAKAHASHI Yumiko UMEGAKI
8412100	Differential Geometry	Minyo KATAGIRI
8412200	Seminar in Differential Geometry	Minyo KATAGIRI
8412700	Mathematics on interacting particle systems	Masato SHINODA
8412800	Seminar in Mathematics on interacting particle systems	Masato SHINODA
8412900	Harmonic Analysis	Shinya MORITOH
8413000	Seminar in Harmonic Analysis	Shinya MORITOH
8413500	Intermediate Energy Nuclear Reactions	Satoru HIRENZAKI
8413600	Seminar in Intermediate Energy Nuclear Reactions	Satoru HIRENZAKI
8413610	Hadron Physics	Hideko NAGAIRO
8413620	Seminar in Hadron Physics	Hideko NAGAIRO
8413700	Lie groups and geometry	Jun-ichi MATSUZAWA
8413800	Seminar in Lie groups and geometry	Jun-ichi MATSUZAWA
8413900	Quantum Field Theory	Haruhiko TERA0
8414000	Seminar in Quantum Field Theory	Haruhiko TERA0
8414300	Instrumentation for Measurement of Elementary Fine Structure	Kenkichi MIYABAYASHI
8414400	Seminar in Instrumentation for Measurement of Elementary Fine Structure	Kenkichi MIYABAYASHI
8414500	Experimental Particle Physics	Hisaki HAYASHII
8414600	Seminar in Experimental Particle Physics	Hisaki HAYASHII
8414700	Geometric Topology	Tsuyoshi KOBAYASHI
8414800	Seminar in Geometric Topology	Tsuyoshi KOBAYASHI
8414900	Analytic Number Theory	Yumiko UMEGAKI
8415000	Seminar in Analytic Number Theory	Yumiko UMEGAKI
8415100	Unified Field Theory and String Theory	Tomohiko TAKAHASHI
8415200	Seminar in Unified Field Theory and String Theory	Tomohiko TAKAHASHI
8419000	Doctoral Thesis Tutorial	Department Staff
8421100	Special Seminar for Integrated Sciences of Physics and Mathematics 1	Shuichiro TSUNODA Hideo YOSHIOKA Mikito TODA
8421200	Special Seminar for Integrated Sciences of Physics and Mathematics 2	Hidemi OGAWA Masahiko TANIGUCHI Kazuki YAMAMOTO
8421300	Alternative Mathematics	Shuichiro TSUNODA
8421400	Seminar in Alternative Mathematics	Shuichiro TSUNODA
8421500	Complex Analysis	Masahiko TANIGUCHI
8421600	Seminar in Complex Analysis	Masahiko TANIGUCHI
8421610	Non-Linear Partial Differential Equation	Taku YANAGISAWA
8421620	Seminar in Non-Linear Partial Differential Equation	Taku YANAGISAWA
8421700	Physics of Complex Systems	Tatsuya UEZU
8421800	Seminar in Physics of Complex Systems	Tatsuya UEZU
8421900	Theory of Chaos	Mikito TODA
8422000	Seminar in Theory of Chaos	Mikito TODA
8422100	Advanced Lecture on Quantum Transport Phenomena in Mesoscopic Systems	Shuichi IWABUCHI
8422200	Seminar in Advanced Lecture on Quantum Transport Phenomena in Mesoscopic Systems	Shuichi IWABUCHI

8422300	Quantum Condensed Matter Physics	Hideo YOSHIOKA
8422400	Seminar in Quantum Condensed Matter Physics	Hideo YOSHIOKA
8422700	Atomic Collisions in Solids	Hidemi OGAWA
8422800	Seminar in Atomic Collisions in Solids	Hidemi OGAWA
8422810	Particle Beam Physics	Kunikazu ISHII
8422820	Seminar in Particle Beam Physics	Kunikazu ISHII
8423100	Structural Physics using Diffraction Techniques	Kazuki YAMAMOTO
8423200	Seminar in Structural Physics using Diffraction Techniques	Kazuki YAMAMOTO
8423700	Physics of High Density Plasma	Shuji KIYOKAWA
8423800	Seminar in Physics of High Density Plasma	Shuji KIYOKAWA
8423900	Advanced studies in X-ray astronomy	Shigeo YAMAUCHI
8424000	Seminar in Advanced studies in X-ray astronomy	Shigeo YAMAUCHI
8424010	Special Course in Observational Astrophysics	Naomi OTA
8424020	Seminar in Observational Astrophysics	Naomi OTA
8424100	Special Course in Soft Matter Physics	So KITSUNEZAKI
8424200	Seminar in Soft Matter Physics	So KITSUNEZAKI
8424300	Automorphic representation and Algebra	Takeo OKAZAKI
8424400	Seminar in Automorphic representation and Algebra	Takeo OKAZAKI
8429000	Doctoral Thesis Tutorial	Department Staff
8431010	Special Seminar for Integrated Information Science 1	Fugo TAKASU Sachiko HAYASHIDA Kazuki JOE Kanakano MURAMATSU Satoshi TAKAHASHI
8431020	Special Seminar for Integrated Information Science 2	Fugo TAKASU Fujio KAKO Yasushi YAMASHITA Naoyuki NIDE
8431100	High Performance Computing	Kazuki JOE
8431200	Seminar in High Performance Computing	Kazuki JOE
8431300	Special Course in Computer Algebra	Fujio KAKO
8431400	Seminar in Special Course in Computer Algebra	Fujio KAKO
8431500	Computer Topology with Applications	Yasushi YAMASHITA
8431600	Seminar in Computer Topology with Applications	Yasushi YAMASHITA
8431900	Special Course in Mathematical Modeling Analysis	Satoshi TAKAHASHI
8432000	Seminar in Special Course in Mathematical Modeling Analysis	Satoshi TAKAHASHI
8432100	Special Lecture on Mathematical Modeling of Biology and Environmental Science	Fugo TAKASU
8432200	Practice of Mathematical Modeling of Biology and Environmental Science	Fugo TAKASU
8432300	Global Change of Atmospheric Minor Species	Sachiko HAYASHIDA
8432400	Seminar in Global Change of Atmospheric Minor Species	Sachiko HAYASHIDA
8432700	Course in the Nature Change in Terrestrial Areas	Kanakano MURAMATSU
8432800	Seminar in Course in the Nature Change in Terrestrial Areas	Kanakano MURAMATSU
8433700	Advanced theory of knowledge and information system	Naoyuki NIDE
8433800	Seminar in Advanced theory of knowledge and information system	Naoyuki NIDE
8433900	Special Lecture on Atmospheric Radiative Transfer Theory	Makoto KUJI
8434000	Practice of Special Lecture on Atmospheric Radiative Transfer Theory	Makoto KUJI
8439000	Doctoral Thesis Tutorial	Department Staff
8491100	Advanced Training for English Communication in Science 1	Shuichiro TSUNODA
8491300	Collaboration Research Program for Women Career Path Formation	Shuichiro TSUNODA
8491900	Seminar of Plannig Internship 1	Shuichiro TSUNODA
8492000	Seminar of Plannig Internship 2	Shuichiro TSUNODA
8492100	Seminar of Plannig Internship 3	Shuichiro TSUNODA