Division of Mathematical and Physical Sciences	Research field	Stochastic Analysis	Lab. ID MP05
Laboratory web site			

Research subjects

Research subject is the probability theory based on the measure theory. Among this, the limit theorem which is a classical theme in this subject is mainly treated. For a sequence of dependent random variables such as martingales or lacunary trigonometric functions, the strong law of large numbers, the central limit theorem and the law of iterated logarithm are studied. The recent interest of me (= Takanobu) is the limit theorem related to the number theory. There are research results for the Bohr–Jessen limit theorem on the Riemann zeta function.

Master/Doctor course: Education policy, curriculum, typical activity in the laboratory

Master course: The first year students learn about probability theory from standard books. The second year students choose their research field and read research papers related the field. They do their own research and write their master theses.
Doctor course: Students will be trained to conduct their research independently as well as acquiring high expertise. As for foreign students, all activities or correspondences in this laboratory are done in English.

Daily life in the laboratory, etc.

In mathematics course, personal working desk and space is available for every student. Also the PC and printer can be used for students in the laboratory room. Students in our laboratory have seminar once a week in general. They study their own research subject by themselves and prepare the next seminar at any other time in the week.

Message or comments by the laboratory faculty staffs

In reading a textbook or a paper, do not swallow an explanation and a proof stated in this. Please confirm them by yourself. Doing so is a matter of the greatest importance in the research of mathematics.

Recent Master theses in these 3 years (+ more if appropriate)

year.month	Thesis title (including English translation of Japanese thesis title)
2017.3	The law of iterated logarithm for uniform bounded augmented multiplicative systems
2015.3	Probability of two integers to be co–prime
2015.3	Sociological interpretation of voter models
2015.3	Real analytical proof of Euler formula

Recent Doctoral theses in these 3 years (+ more if appropriate)

year.month	Thesis title (including English translation of Japanese thesis title)

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