Division of Mathematical and Physical Sciences	Research field	Basic Computational Mathematics	Lab. ID MP15
Laboratory web site	http://polaris.s.kanazawa-u.ac.jp/csc/en/appmath_teachers.html		

Research subjects

We study algebraic combinatorics, low dimensional topology and arithmetic properties of special functions. Through our research, representation theory and various types of polynomials are made use of. Key words: association scheme, spin model, coding theory, invariant theory, modular form, knot, quantum invariant, periods of algebraic varieties, theta functions, hypergeometric functions etc.

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

In Basic Computational Mathematics, each laboratory studies each reserch field. First, students will choose one of the research fields. In the laboratory, they will read fundamental books or papers on each field and learn research trend. They will proceed to find possible problems and try to solve them by computer aided calculation. They will write a master or PhD thesis.

Daily life in the laboratory, etc.

Research seminars are very important in student's laboratory life. At research seminars, students will read scientific literatures and discuss their own research progress with each other. They often use mathematical softwares such as Risa/Asir, Mathematica, Maple, Magma and Sage. Moreover, many international students are studying in our course. International communications among students are recommended.

Message or comments by the laboratory faculty staffs

We hope students make friends and discuss various matters. Let's do our best.

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