

Division of Mathematical and Physical Sciences	Research field	Algebra	Lab. ID MP01
Laboratory web site			
Research subjects			
Our research interests are Number theory, Automorphic forms, Representation theory, Algebraic geometry, Commutative algebra, etc.			
Master/Doctor course: Education policy, curriculum, typical activity in the laboratory			
Master course: The first grade students take several courses and seminars. At the beginning of the second grade, students decide their practical subject for the Master thesis, and study these subjects by communicating with their advisers. Doctor course: Students select the primary adviser and start their programs. They are encouraged to go for outer activities, particularly research workshops and seminars. Financial supports are usually available.			
Daily life in the laboratory, etc.			
Personal working desk is available for every student. Our library has sufficiently many books and journals for study.			
Message or comments by the laboratory faculty staffs			
Study seriously, and enjoy mathematics.			
Recent Master theses in these 3 years (+ more if appropriate)			
year.month	Thesis title (including English translation of Japanese thesis title)		
2017.3	Harmonic polynomials on the unit $n$ -sphere		
2017.3	Classification of finite groups with order $\leq 30$ and their character tables		
2016.3	Bhargava's cubes and ideal classes of integer rings in quadratic field		
2016.3	$\varepsilon$ -Hermitian forms over local fields and maximal integral lattices		
2016.3	Quaternion algebras and Fuchsian groups		
2016.3	On Classical Approaches to Fermat's Last Theorem		
2015.3	On transcendence problems of values of certain modular forms		
2015.3	On the structure of complete local rings		
2015.3	Several properties of regular local rings		
2014.3	The dimension formula of automorphic forms on a unitary group of degree 3		
2014.3	Computation of toric ideals by Grobner bases		
2014.3	Computation of free resolutions by Grobner bases		
2014.3	Divisorial contractions to cDV points with discrepancy $> 1$		
2013.3	On the structure of Jacobi Hecke algebras		
2013.3	Structures of certain automorphic forms on orthogonal groups of signature (2,3)		
2013.3	Computation of elliptic curves with points of order 2		
Recent Doctoral theses in these 3 years (+ more if appropriate)			
year.month	Thesis title (including English translation of Japanese thesis title)		
2017.3	Divisorial contractions to cDV points		
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