Math 295 - Mathematics Colloquium

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Galois groups of rational functions

Abstract:
A fundamental invariant associated to every complex rational function $f$ is its monodromy group, that is, the Galois group of the covering $f : P^1 \rightarrow P^1$ on the projective line $P^1$. We shall discuss the accumulating work towards determining the degree $n$ complex rational functions with a specified monodromy group that is not $A_n$ or $S_n$, and its applications to problems in number theory, complex analysis, and complex dynamics. Joint work with Michael Zieve.

Hosts: Adrian Wadsworth and Cristian Popescu

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4:00 PM
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