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Abhyankar's Conjecture and the Inverse Galois Problem

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Abstract: Abhyankar's Conjecture qualifies which finite groups occur as Galois groups of certain covers of curves in positive characteristic, thus providing an affirmative answer to a type of inverse Galois problem. In this talk, I will give an overview of the history of the conjecture and describe some current work that addresses a related question: given a cover of the projective line in the situation of Abhyankar's Conjecture with one branch point, what can be said of the associated ramification jumps?

Tuesday, April 18, 2023, 4:00 pm
Mathematics and Science Center: MSC W301

MATHEMATICS
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