Philadelphia Area Number Theory Seminar

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The Inverse Galois Problem with Speci ed Rami cation

Abstract: The inverse Galois problem asks whether every nite group appears as the Galois group of some extension of the rational numbers. In this talk I will focus on which nite groups appear as the Galois group of some extension of the rational numbers in which only a xed set of primes may ramify. I will present results and examples in some speci c cases, with an emphasis on the situation in which only one nite prime rami es, as well as provide some insight into how the rami ed primes in a Galois extension relate to generating sets of the corresponding Galois group.

Wednesday, October 31, 2018
2:40 { 4:00 PM

Bryn Mawr College
Department of Mathematics
Park Science Center 328
Tea and refreshments at 2:20 PM in Park 361