

## abstract

MEMBERS SEMINAR

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

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Let  $F$  be a finite field. The Nottingham group  $N(F)$  is the group of formal power series  $\{t(1+a_1 t + a_2 t^2 + \dots) : a_i \in F\}$  or, equivalently, the group of wild automorphisms of the local field  $F((t))$ . In spite of such a simple definition, the subgroup structure of the Nottingham group remains rather mysterious. In this talk I will discuss why the Nottingham group behaves in many aspects like algebraic groups over local fields but at the same exhibits certain "very nonlinear" features.