1106-11-840   **Kirsten Graham Wickelgren*** (`kwickelgren3@math.gatech.edu`), School of Mathematics, 686 Cherry Street, Atlanta, GA 30308. *Étale π_1 obstructions to rational points on Fermat curves.*

Jordan Ellenberg introduced obstructions to rational points coming from the lower central series of the étale fundamental group. This talk will describe joint work with Rachel Davis, Rachel Pries, and Vesna Stojanoska towards computing Ellenberg's 2-nilpotent obstruction for Fermat curves, using a description of the homology of Fermat curves due to Greg Anderson. (Received September 07, 2014)

1