

1018-13-73

**Kazuma Shimomoto\*** ([shimomot@math.utah.edu](mailto:shimomot@math.utah.edu)), University of Utah, Department of mathematics, 155 South 1400 East, Room 233, Salt Lake City, UT 84112-0090. *On certain big rings in mixed characteristic*. Preliminary report.

In this talk, I will discuss a certain class of big rings in mixed characteristic via Frobenius maps. The main technique I use here is the weak version of etale extensions of rings. The central problem is to investigate the condition under which the Frobenius map is surjective on the big rings after killing the prime  $p$ . (Received February 26, 2006)