## 1093-20-69

Ted Chinburg\* (ted@math.upenn.edu) and Matthew Stover (mstover@temple.edu). Non-commutative algebra and arithmetic groups. Preliminary report.

This talk will be about using the arithmetic of divison algebras and Lefschetz theorems for surfaces to show that large arithmetic groups can sometimes be generated by small subgroups. The new result in the talk cuts down to 2 the number of Fuchsian curves needed to produce a divisor whose fundamental group has image of finite index in the arithmetic group in question. (Received July 28, 2013)