## P. P. Pálfy. On the Number of Conjugacy Classes in some p- Groups of Matrices.

By a famous conjecture, for every fixed n, the number of conjugacy classes in the group of upper unitriangular matrices over the q element field should be a polynomial function of q. Instead of the full group, we consider the so-called partition subgroups, that is, subgroups consisting of those matrices where some entries are set to be equal to zero. We show that there exist partition subgroups of nilpotence class 2 such that their number of conjugacy classes is not a polynomial function of q. (This is joint work with Zoltán Halasi.)