Algebra and Number Theory Seminar

Title: Commuting matrices and Higman's conjecture

Speaker: Sergey Mozvogoy (TCD)

Date: Thu 19th September 2019 at 2:00PM

Location: Seminar Room SCN 1.25

Abstract: Higman's conjecture states that the number of conjugacy classes in the group of upper triangular matrices over F_q is polynomial in q. It can be also formulated as a problem of counting commuting upper triangular matrices over a finite field. I will introduce a generalisation of this problem in terms of quiver representations and prove relations between various counting invariants that arise. In particular, I will show that the original conjecture is equivalent to polynomial-count of certain absolutely indecomposable quiver representations.

https://maths.ucd.ie/ kazim$_b$/$UCD_ANT_Sseminar.html$