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Algebra and Number Theory Seminar

John Curran (Univ. of Otago, New Zealand)

will speak on

Automorphisms of products of finite groups

Mon 17th November 2008 at 4:00PM

Location: Mathematical Sciences Seminar Room

Let G be a finite group which is a product of subgroups H and K. The talk considers how Aut G, the automorphism group of G, is related to the automorphism groups of H and K and certain central homomorphism groups. In particular, if G is a direct product of H and K, then the size and structure of Aut G can be nicely specified. If G is a semidirect product and the normal subgroup H is abelian, then Aut(G:H), the subgroups of automorphisms fixing H, can be specified and is again a semidirect product. Finally subgroups of Aut G will be considered where G = HK (and one subgroup is normal). Examples will be used throughout to illustrate the results.

This talk is part of the Algebra and Number Theory series. For more, see https://maths.ucd.ie/seminars