Monday June 5

10:30 - 12:30 Valerio Toledano Laredo

Title: Stokes phenomena, Poisson-Lie groups and quantum groups

Abstract:

Let G be a complex reductive group, G* its dual Poisson-Lie group, and g the Lie algebra of G. Gvalued Stokes phenomena were exploited by P. Boalch to linearise the Poisson structure on G*. I will explain how Ug-valued Stokes phenomena can be used to give a purely transcendental construction of the quantum group Uhg. I will also show that the semiclassical limit of this construction recovers Boalch's. The latter result is joint work with Xiaomeng Xu.