

# Algebra and Geometry Seminar

**Speaker:** Ana Garcia-Elsener (University of Glasgow)

**Title:** Grassmannian cluster categories.

**Abstract:** The category of maximal Cohen-Macaulay modules over a certain quotient of a boundary algebra provides a categorification of Scott's cluster algebra structure of the Grassmannian  $Gr(k, n)$ , by work of Jensen, King and Su. This category is of infinite type in general, with finite types corresponding to the ADE Dynkin diagrams. We study this category in the infinite types. It is known to be tau-periodic, and we show that it is a tubular category. This makes it a very interesting family of categories of infinite types and allows us to characterize small rank modules.