# Algebra and Geometry Seminar

**Speaker**: Magdalena Boos (Ruhr-Universität Bochum)

**Title**: Symmetric quiver representations and degenerations

**Abstract**: The notion of a symmetric quiver was first introduced by Derksen and Weyman in 2002. Symmetric quiver representations are collected in so-called symmetric representation varieties which are acted on by reductive groups via change of basis. We are interested in the orbits and their closures of said actions. Orbit closure relations lead us to considering symmetric degenerations for which one of the most important questions is: are symmetric degenerations induced by "usual" degenerations in the representation variety of the underlying quiver? We look at (counter)examples and recent results. This is joint work with G. Cerulli Irelli.