Title: Geometry of braidings

Speaker: Ehud Meir (University of Aberdeen)

Abstract: Solutions to the Yang Baxter Equation play an important role in the theory of Hopf algebras and monoidal categories. In this talk we will consider the YB Equation from a geometric perspective. I will explain how algebraic group actions and invariant theory enter the picture, and some applications in the theory of Nichols algebras. If time permits, I will also tell you about a conjecture relating the irreducible components of the variety of solutions and set-theoretical solutions to the YB Equation. The talk is based on a joint work with Ben Martin, and with Leandro Vendramin and Istvan Heckenberger.