## Realising Quantum Flag Manifolds as Graph C\*-algebras"

**Abstract**: In this talk I will show how the C\*-completions of the so-called quantum flag manifolds---noncommutative spaces arising as homogeneous spaces of quantum groups---can be realised as graph C\*-algebras. After recalling the definition of a quantum flag manifold and its C\*-algebra, I will describe how to compute the primitive ideal space using Dijkhuizen and Stokmann's description of a complete set of irreducible \*-representations. This allows one to to construct a graph directly from the Weyl group of the associated Lie algebra, and appeal to classification results of Eilers, Ruiz and Sorensen to show that this graph C\*-algebra is isomorphic to the C\*-algebra of the relevant quantum flag manifold. This recovers some known isomorphisms between the C\*-algebras of quantum flag manifolds, as well as determining surprising new ones.