## Anthony Henderson (University of Sidney)

Title: The cohomology of real De Concini-Procesi models of Coxeter type.

Abstract: To any hyperplane arrangement one can associate a De Concini-Procesi model by blowing up the intersections in a prescribed way. In the case of the braid arrangement, this leads to the moduli space of stable genus 0 curves with marked points. Some remarkable results about the cohomology of the real points of the latter variety, including a formula for the character of the representation of the symmetric group on each rational cohomology group, have been discovered recently by Etingof, Henriques, Kamnitzer, and Rains. I will discuss how these results can be generalized to other finite Coxeter types. In types B and D this involves the homology of sub-posets of the signed partition lattice. This is joint work with Eric Rains (UC Davis).