Automorphisms of the Computably Enumerable Sets

Leo Harrington

There is a technique for building Δ^0_3 automorphisms of the lattice $\mathcal{E}$ of computably enumerable sets. A recent result with Peter Cholak shows that there are certain parts of $\mathcal{E}$ (actually these are parts of $\mathcal{E}^{eq}$) such that any automorphism restricted to such parts must be Δ^0_3. This talk will be about this result and some of its consequences.

Address: Department of Mathematics, University of California, Berkeley, CA 94720-3840, USA
E-mail: leo@math.berkeley.edu