1092-06-308　　　　　　**William DeMeo*** (`williamdemeo@gmail.com`). *Finite group properties deducible from local subgroup lattice structure.*

We recently proposed classifying a group property according to whether or not we can deduce that a group has this property if its subgroup lattice contains an interval of a certain shape. More precisely, suppose $\mathcal{X}$ is a group property and suppose there exists a lattice L such that if G is a group and L is isomorphic to an interval $\{K : H \leq K \leq G\}$ in the subgroup lattice, with H a core-free subgroup of G, then G has property $\mathcal{X}$. We call such $\mathcal{X}$ a "core-free interval enforceable" property. In this talk we list some group properties that we have been able to classify as either core-free interval enforceable or not, and then we describe how the study of such properties might lead to an example of a finite lattice that is not the congruence lattice of a finite algebra. (Received August 12, 2013)