1047-08-40 **Peter Mayr*** (peter.mayr@jku.at), Altenberger Strasse 69, Linz, 4040. Affine complete G-sets. Preliminary report.

For a permutation group G on a set X, we call the algebra (X, G) a G-set. Hence G-sets are simply the algebraic structures that model group actions. If every unary congruence preserving function on a G-set is either constant or in G, we say that it is 1-affine complete.

We present some families of affine complete G-sets, like for example, regular actions of non-abelian groups that are generated by involutions. In general, whether a G-set is affine complete is not determined by the isomorphism type of its congruence lattice alone. Still we can show that certain lattices – including all distributive lattices – do not occur as congruence lattices of affine complete G-sets. (Received January 17, 2009)