

1135-20-1204

Arturo Magidin* (magidin@louisiana.edu), Department of Mathematics, University of Louisiana at Lafayette, P.O. Box 43568, Lafayette, LA 70504-3568, and **Martha L.H. Kilpack**, Department of Mathematics, 275 TMCB Brigham Young University, Provo, UT 84602. *The lattice of algebraic closure operators on an infinite subgroup lattice.*

We consider the lattice of algebraic closure operators on the lattice of all subgroups of an infinite group G , and ask when this is isomorphic to the lattice of subgroups of some group K . We had previously proven that in the finite case, this occurs if and only if G is cyclic of prime power order. We show that in the infinite case, this occurs if and only if G is the Prüfer p -group. (Received September 20, 2017)