

1014-03-1067

Brian Wynne* (bwynne@colgate.edu), Department of Mathematics, Colgate University, 13 Oak Drive, Hamilton, NY 13346. *Elementarily equivalent l -groups of continuous functions on essential P -spaces.*

In [1] Weispfenning classifies all divisible projectable Abelian l -groups with weak unit up to elementary equivalence: a relation, weaker than isomorphism, under which the l -groups satisfy the same propositions expressed in a vocabulary appropriate to l -groups. We indicate the relevance of P -spaces to Weispfenning's result and describe an analogous classification for a special collection of l -groups of continuous functions on essential P -spaces.

[1] V. Weispfenning, Model Theory of abelian l -groups, in: A.M.W. Glass and W.C. Holland, editors, *Lattice-ordered groups*, Kluwer Academic Publishers Group, Dordrecht (1989), 41-79. (Received September 27, 2005)