1024-20-106 **Dave Garrison*** (david.garrison@binghamton.edu). *Using GAP to construct metabelian p-groups and working with them.*

GAP (Groups, Algorithms, Programming) has powerful capabilities for constructing metabelian p-groups and working with them. The talk discusses constructing generic metabelian p-groups, constructing quotient groups with specific characteristics, and using GAP to assist in verifying characteristics. Examples of metabelian p-groups constructed with GAP having various subnormality conditions will be given along with how GAP can be used to assist in verifying that the groups have the required characteristics. (Received January 10, 2007)