

1077-20-1079

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The study of the classes of finite groups in which all subnormal subgroups are normal, permutable, or Sylow-permutable has been a fruitful topic in the theory of groups during the last years, with many papers and characterizations available. In this talk we present some algorithms for the recognition of groups belonging to these classes. They have been implemented in a package for the computer algebra system GAP. (Received September 16, 2011)