Title: Almost simple groups with the socle $PSL(2, p^n)$ are determined by their complex group algebras

Author(s): Somayeh Heydari and Neda Ahanjideh

Let n be a natural number, p be a prime number and L be an almost simple group with the socle $PSL(2, p^n)$. In this paper, we prove that L is uniquely determined by the first column of its character table. As a consequence, we show that L is uniquely determined by its complex group algebra.

Address:
Somayeh Heydari
Department of Pure Mathematics
Faculty of Mathematical Sciences
Shahre-kord University
P. O. Box 115
Shahre-kord
Iran

Address:
Neda Ahanjideh
Department of Pure Mathematics
Faculty of Mathematical Sciences
Shahre-kord University
P. O. Box 115
Shahre-kord
Iran