

1112-20-637

Jonathan I Hall*, Department of Mathematics, Michigan State University, 619 Red Cedar Road, East Lansing, MI 48824. *Solvable Moufang loops.*

The general topic is the relationship between the normal structures of a Moufang loop and of its triality and multiplication groups. In particular, a Moufang loop with solvable multiplication group is itself solvable (in the sense of Bruck). For finite Moufang loops, this is a special case of Vesanen's 1996 result. For finite solvable Moufang loops we also have the converse to Vesanen's result: their triality and multiplication groups are always solvable. (Received August 11, 2015)