

Session 46 - On the Restricted Burnside Problem for Moufang loops.

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The Restricted Burnside Problem in group theory appeared in the 30s of the last century, and was, probably, formulated by W. Magnus: is there only a finite number of finite groups of m generators and exponent n ? The positive answer was given, in the 90s, by Efim Zelmanov. In our talk we will discuss the Restricted Burnside Problem in the class of Moufang loops, a non-associative generalization of groups. In particular, we will show that in the class of left-automorphic Moufang loops the Restricted Burnside Problem has a positive solution. Octonion loop (i.e the loop generated by the basic elements of octonion algebra) and code loops are examples of left-automorphic Moufang loops. In my talk I will use the results of our joint work P. Plaumann and joint work with A. Grishkov and E. Zelmanov.

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