ON THE FREE DISTRIBUTIVE LATTICES

Nako Nachev

Abstract. *In this paper we consider the numbers of free distributive lattice with finite generators. This problem is very difficult. Let we denote with FDL(n) the numbers of elements of free distributive lattice with n generators. Then we have $FDL(1) = 1$, $FDL(2) = 4$ and $FDL(3) = 18$. Here we obtain $FDL(4) = 166$, $FDL(5) = 7669$ and $FDL(6) > 1000000$. Variable $FDL(n)$ is always finite for every natural n.*

Nako Nachev[1,*]

[1] Paisii Hilendarski University of Plovdiv,
Faculty of Mathematics and Informatics,
236 Bulgaria Blvd., 4003 Plovdiv, Bulgaria