

1104-06-18

**Yuri Movsisyan\*** ([yurimovsisyan@yahoo.com](mailto:yurimovsisyan@yahoo.com)), Alex Manoogian 1, 0025 Yerevan, Armenia.

*Boolean-like algebras and Boolean-like functions.*

It is commonly known that the free Boolean algebra on  $n$  free generators is isomorphic to the Boolean algebra of Boolean functions of  $n$  variables. The free distributive lattice on  $n$  free generators is isomorphic to the lattice of monotone Boolean functions of  $n$  variables. A problem posed by B.I. Plotkin in 1970 has required to find the varieties of algebras with analogous functional representations of free finitely generated algebras. In this talk we give a solution of this problem. (Received June 04, 2014)