

# EQUACLOSURE OPERATORS ON FINITE LATTICES

K.ADARICHEVA  
(HAROLD WASHINGTON COLLEGE, CHICAGO)

(joint work with J. B. NATION, University of Hawaii)

We investigate approaches to the solution of Birkhoff-Mal'cev problem about the description of (finite) lattices of quasivarieties. All known finite lattices of quasivarieties are lower bounded. Also, every lattice of quasivarieties admits a so-called equaclosure operator. We work toward description of lower bounded lattices that admit an equaclosure operator. In particular, we build an algorithm that works for any finite lattice and either decides that the lattice does not admit an equaclosure operator, or generates the minimal equaclosure operator on it.