1047-06-268   **J. B. Nation*** (`jb@math.hawaii.edu`), Department of Mathematics, University of Hawaii, Honolulu, HI 96822, and **Tristan Holmes**, **Dayna Kitsuwa** and **Sheri Tamagawa**. *Lattices of theories in languages without equality.*

We consider lattices of theories in a language that may not include equality. Lattices of atomic theories (the analog of equational theories) are isomorphic to the lattice of order ideals of an ordered set. Lattices of implicational theories (the analog of quasi-equational theories) are isomorphic to the congruence lattice of a semilattice with operators. (Received January 30, 2009)