1035-13-742   **Janet C. Vassilev*** (`jvassil@ucr.edu`), Department of Mathematics, University of California, Riverside, Riverside, CA 92521. *Structure on the set of closure operations of a commutative ring.*
We will discuss the algebraic structure on the set of closure operations of a ring. We show that the set of closure operations is not a monoid under composition even for a discrete valuation ring. The set of semiprime operations over a DVR is also not a monoid; however, it is the union of two monoids, one being the left but not right act of the other. We will also discuss semiprime operations over the ring $K[[t^2, t^3]]$. (Received September 14, 2007)