1014-13-604 **David E. Dobbs** and **Jay Shapiro*** (jshapiro@gmu.edu), Department of Mathematics, George Mason University, Fairfax, VA 22030. *A classification of the minimal ring extensions of an integral domain.*

Let R be any integral domain. We show that the minimal (commutative unital) ring extensions S of R are, up to R-algebra isomorphism, of three non-overlapping types: (i) the domains S that contain R and are minimal ring extensions of R; (ii) the idealizations $R(+)R/M$ arising from maximal ideals M of R; and (iii) the direct products $R \times R/M$ arising from maximal ideals M of R. (Received September 21, 2005)