1027-16-92W. D. Burgess* (wburgess@uottawa.ca), Department of Mathematics and Statistics, University
of Ottawa, Ottawa, ON K1N 6N5, Canada. On commutative clean rings. Preliminary report.

Commutative clean rings are the commutative exchange rings and can also be thought of as the local ring objects in the category of commutative rings. (A ring R is *clean* if for each $r \in R$ there are an idempotent e and a unit u such that r = u + e.) These rings and two generalizations, *almost clean* and *weakly clean* rings, are studied from the point of view of a sheaf over the spectrum of their boolean algebra of idempotents. This is a natural approach because idempotents play such an important role in this context. (Received February 19, 2007)