

1058-13-58

**Dan D. Anderson\*** ([dan-anderson@uiowa.edu](mailto:dan-anderson@uiowa.edu)), Department of Mathematics, The University of Iowa, Iowa City, IA 52242. *Quasi-complete local rings*. Preliminary report.

We discuss quasi-complete local and semilocal rings and modules. Of the many equivalent ways to define a quasi-complete local ring, the simplest is the following. Let  $(R, M)$  be a local (Noetherian) ring. Then  $R$  is quasi-complete if each element  $s$  in the  $M$ -adic completion of  $R$  has the form  $s=ru$  where  $r$  is in  $R$  and  $u$  is a unit of the completion. (Received January 28, 2010)