1048-11-117 **Paul J. Truman*** (pt224@exeter.ac.uk), SECAM, Harrison Building, North Park Road, Exeter, Devon EX4 4QF, England. *Hopf-Galois Module Structure Of Some Tamely Ramified Extensions.* Preliminary report.

The use of nonclassical Hopf-Galois structures in the study of the integral Galois module structure of wildly ramified extensions has proven fruitful. For example, Byott has exhibited finite wildly ramified Galois extensions L/K of *p*-adic fields for which the ring of algebraic integers \mathfrak{O}_L is not a free module over the associated order in the group algebra K[G], but is a free module over the associated order in some nonclassical Hopf-Galois structure admitted by the extension. On the other hand, if L/K is a tamely ramified extension of local or global fields then little is known about the structure of \mathfrak{O}_L over the associated order in any of the nonclassical structures admitted by the extension. We study this problem for certain classes of tamely ramified extensions. (Received February 02, 2009)