

1146-11-114

**Kevin Keating\***, Dept. of Mathematics, University of Florida, Gainesville, FL 32611. *Galois scaffolds and semistable extensions.*

Let  $K$  be a local field and let  $L/K$  be a totally ramified Galois extension of degree  $p^n$ . Being semistable and possessing a Galois scaffold are two conditions which facilitate the computation of the additive Galois module structure of  $L/K$ . These properties can also be helpful for finding Hopf orders in  $K[G]$ . In this talk I will consider the relation between semistable extensions and Galois scaffolds. The main result is that  $L/K$  is semistable if and only if  $L/K$  has a Galois scaffold with precision 1. (Received January 12, 2019)