

1106-11-1225

**Bryden Cais\*** (cais@math.arizona.edu) and **Tong Liu**. *On the restriction of  $F$ -crystalline  $p$ -adic Galois representations.*

Let  $K$  be a finite extension of  $\mathbf{Q}_p$ , and let  $K_\infty$  be the extension of  $K$  obtained by adjoining a compatible system of  $p$ -power roots of a uniformizer of  $K$ . A theorem of Kisin asserts that the restriction of crystalline ( $p$ -adic)  $G_K$ -representations to  $G_{K_\infty}$  is fully faithful. We generalize this theorem to include a large class of infinite, totally wildly ramified strictly APF extensions of  $K$ . (Received September 11, 2014)