1023-11-1030 **Bo-Hae Im*** (imbh@cau.ac.kr), Dept.of Mathematics, Chung-Ang University, 221 Heukseok-dong, Dongjak-gu, Seoul, 156-756, South Korea, and **Florian Breuer** (fbreuer@sun.ac.za), Mathematics Dept., University of Stellenbosch, 7602 Stellenbosch, Stellenbosch, South Africa. *Heegner points and the rank of elliptic curves over large extensions of global fields.*

Let k be a global field, $\overline{k}$ a separable closure of k, and G_k the absolute Galois group $\mathrm{Gal}(\overline{k}/k)$ of $\overline{k}$ over k. For every $\sigma \in G_k$, let $\overline{k}^{\sigma}$ be the fixed subfield of $\overline{k}$ under σ. Let E/k be an elliptic curve over k. We show that for each $\sigma \in G_k$, the Mordell-Weil group $E(\overline{k}^{\sigma})$ has infinite rank in the following two cases. Firstly when k is a global function field of odd characteristic and E is parametrized by a Drinfeld modular curve, and secondly when k is a totally real number field and E/k is parametrized by a Shimura curve. In both cases our approach uses the non-triviality of a sequence of Heegner points on E defined over ring class fields. (Received September 24, 2006)