

Galois Symbols on the square of an elliptic curve

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This talk will describe, for any elliptic curve E over a local or a global field F , some joint work with Jacob Murre on the Albanese kernel $T_F(E \times E)$. The main results include information, for any prime p , about the kernel and image of the map from $T_F(E \times E)/p$ to $H^2(F, E[p]^{\otimes 2})$, as well as a construction, over suitable extension fields K , of non-trivial classes in $T_K(E \times E)/p$.