

Twists and Galois structure in bicyclic extensions

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Abstract. In finite Galois extensions of local number fields, the Galois action on ideals results in the ramification filtration of the Galois group and a Galois module structure for each ideal (from the extension field). We are interested in the effect of twists (by characters of the absolute Galois group of the base field) on these—in particular, the effect of ramification filtration preserving twists on the Galois module structure of each ideal. This talk focuses on joint work with N. Byott on the class of bicyclic extensions.

