

Seminari de Geometria Algebraica 2008/2009 (UB-UPC)

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<http://atlas.mat.ub.es/sga>

Bounding the kernel of the tame symbol on curves

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One can compute K_2 of the rationals fairly easily by using division with remainder in the integers. We discuss how, for a curve over an arbitrary field, a similar technique leads to the description of a subgroup of K_2 of its function field that contains the kernel of the tame symbol on the curve. For example, for an elliptic curve defined by a Weierstrass equation, this subgroup is generated by symbols $\{l_1, l_2\}$ with l_i a non-zero constant or an equation of a line.
