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*Projective curves over small fields.*

The geometry of projective curves defined over  $\bar{Q}$  or  $\bar{F}_p$  differs dramatically from the geometry of curves over other fields. It is manifested for example by famous Belyi theorem. In my talk I will discuss several results about unramified coverings of the curves over small fields ( i.e  $\bar{Q}$  or  $\bar{F}_p$ ) motivated by the following question.

Let  $C_1, C_2$  be two hyperbolic( i.e. genus  $\geq 2$  ) projective curves over a small field  $L$ . Is it possible to find a projective curve  $C$  which is a ( geometric ) unramified covering of  $C_1$  and has a surjection onto  $C_2$ ? The answer to this question in full generality is unknown but I will provide many cases when such a "unramified correspondence" exists.

The talk is based on our joint results with Yuri Tschinkel and contains both published and new results on the topic. (Received September 14, 2010)