

## A Galois Characterisation of the Properties PAC and Largeness

The birational version of Grothendieck's section conjecture says that every section of the Galois group  $G_{K(C)/K}$  - for  $K$  a finitely generated extension of  $\mathbb{Q}$  and  $C$  a hyperbolic curve over  $K$  - comes from a  $K$ -rational point of  $C$ .

We will show that for almost arbitrary fields  $K$  (which includes the above case) the  $K$ -rational points of any smooth, projective curve  $C$  over  $K$  correspond to conjugacy classes of certain subgroups of  $G_{K(C)}$ . We will then use this correspondence to obtain a Galois characterisation for large and PAC fields. The main reference for this talk is the paper 'On the Section Conjecture in anabelian geometry' by Jochen Koenigsmann.