

## The inverse problem of Galois theory

The inverse problem of Galois theory asks whether for every finite group  $G$  there exists an epimorphism  $\text{Gal}(\mathbb{Q}) \rightarrow G$ , where  $\text{Gal}(\mathbb{Q})$  is the absolute Galois group of  $\mathbb{Q}$ . This problem is far from being solved. We give an overview talk about known partial results, emphasizing the so-called rigidity method of Thompson, Matzat and Malle.