

Professor Tim Dokchitser - Pure

I mostly work in algebraic number theory and elliptic curves, and especially with things related to Inverse Galois Problem, models of curves, and the Birch-Swinnerton-Dyer Conjecture. I am also interested in all kinds of connections between number theory and Galois theory, finite groups and representation theory, and arithmetic of L-functions. Most of the things that I do rely heavily on computers and computational algebra systems. I use computer experiments a lot to formulate and to test conjectures, and to get inspiration about their proofs as well. I have various possible projects that concern the Inverse Galois Problem and arithmetic of curves and their L-functions; feel free to drop by to discuss them if you are interested.

You can also have a look on my webpage <http://www.maths.bris.ac.uk/~matyd/> for my publications, summer school lecture notes and the like.