

Speaker: Steffen Müller

Title: Algorithms for hyperelliptic Mumford curves

Abstract. By a theorem of Mumford, a curve defined over a p -adic field with split degenerate reduction can be uniformized using a Schottky group. I will discuss how to explicitly compute this uniformization when the curve is hyperelliptic. Our main application is an algorithm for p -adic Schneider heights.

N.B. This is joint work with Enis Kaya, Marc Masdeu and Marius van der Put.