

On the linear independence of some values of the p-adic Hurwitz zeta function

Anthony Poels (Univerité de Lyon 1)

Apéry's 1978 proof of the irrationality of $\zeta(3)$ has been the source of much research aimed at studying the nature of some values taken by functions such as the Riemann zeta function. We will first examine the history of these questions and Apéry's strategy, before explaining how we can move from the complex world to the p-adic world. In this context, we will finally present a linear independence result for values of the p-adic Hurwitz zeta function. If time permits, we will give a sketch of the proof.

This is a joint work with Makoto Kawashima.