

1024-11-261

Florian Pop* (pop@math.upenn.edu), University of Pennsylvania, Department of Mathematics,
209 South 33rd Street, Philadelphia, PA 19104. *On the p -adic birational section Conjecture.*

The section Conjecture of Grothendieck is one of the main open problems in anabelian geometry. There are several variants of this conjecture, like the birational section Conjecture, and the corresponding conjectures over (sub)- p -adic base fields. I will present a very strong variant of the birational section Conjecture over the p -adics. This kind of result might have major implications for the p -adic section conjecture for curves (which is completely open at the moment), via Mochizuki's cuspidalization theory. (Received January 10, 2007)