

COMPUTING SELMER SETS

Jennifer Balakrishnan

Boston University, USA

`jbala@bu.edu`

Kim's nonabelian Chabauty program for studying rational points on hyperbolic curves yields a series of refined Selmer sets at depth n , cut out by n -fold iterated p -adic integrals. We discuss computations that have been done of these sets in explicit cases, including punctured elliptic curves and smooth projective curves of genus 2 and 3.