1017-11-112 Michael R. Bush* (bush@math.umass.edu), Dept. of Mathematics & Statistics, University of Massachusetts, Amherst, MA 01003-9305, and John Labute (labute@math.mcgill.ca), Dept. of Mathematics & Statistics, McGill University, Montreal, QC H3A 2K6, Canada. *Mild pro-p groups* and p-extensions with restricted ramification.

In recent work Labute has introduced the notion of a mild pro-p group. These groups have many nice properties and are of interest in number theory because they often arise as the Galois groups of maximal p-extensions of \mathbb{Q} with ramification restricted to a finite set of primes S. I will describe some work in which we attempt to characterize those extensions of \mathbb{Q} which are mild when |S| is small. (Received February 16, 2006)