1070-11-281 **Nigel Boston*** (`boston@math.wisc.edu`), Department of Mathematics, University of Wisconsin, Madison, WI 53706, and **Michael R. Bush** and **Farshid Hajir**. *Heuristics for p-Class Towers of Imaginary Quadratic Fields.* Preliminary report.

Let p be an odd prime and K an imaginary quadratic field. The Galois group of the maximal unramified p-extension of K is a Schur σ-group. We study how frequently a given Schur σ-group arises in this way, and propose possible heuristics similar to earlier ones of Cohen-Lenstra and Boston-Ellenberg. (Received February 14, 2011)