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David Krumm* (dkrumm@uga.edu). *Computing algebraic numbers of bounded height.*

Given a number field K and a bound B , we describe an algorithm for listing all the elements of K having relative height at most B . This method shows dramatic improvements in performance over previously existing methods. We will discuss an application of this algorithm to the computation of sets of preperiodic points for quadratic polynomials over number fields. (Received September 04, 2012)