1108-11-130 **Lubjana Beshaj*** (beshaj@oakland.edu). *Reduction of binary forms.*

We give an introduction to the reduction theory of binary forms starting with quadratic forms with real coefficients, Hermitian forms, and then define the Julia quadratic for any degree n binary form. We develop a reduction algorithm for any degree n binary form with coefficients in some algebraic number field K, based on classical work of Hermite, Julia, and more recent work of Cremona and Stoll. The reduced form has minimal absolute height. (Received January 07, 2015)