

1113-11-256 **Mark van Hoeij*** (hoeij@math.fsu.edu), Dept. of Mathematics, Florida State University,
Tallahassee, FL 32306. *Solving problems with the LLL algorithm.*

Lattice basis reduction is a computational technique introduced by Lenstra, Lenstra, and Lovász (LLL). It has many applications in a wide variety of subjects. The talk will give a sample, and discuss in more details its application to factoring univariate polynomials. (Received August 24, 2015)