Habiba Kadiri* (kadiri@cs.uleth.ca), University of Lethbridge, Department of Mathematics and Computer Scienc, 4401 University Drive, Lethbridge, AB T1K 3M4, Canada, and Nathan Ng. A bound for the least prime ideal in the Chebotarev density problem. Preliminary report. A classical theorem due to Linnik gives a bound for the least prime number in an arithmetic progression. Lagarias, Montgomery and Odlyzko gave a generalization of this result to any number field. Their proof relies on some results about the distribution of the zeros of the Dedekind Zeta function (zero free regions, Deuring Heilbronn phenomenon). In this talk, I will present some new results about these zeros. As a consequence, we are able to prove an effective version of the theorem of Lagarias et al. (Received August 11, 2008)

